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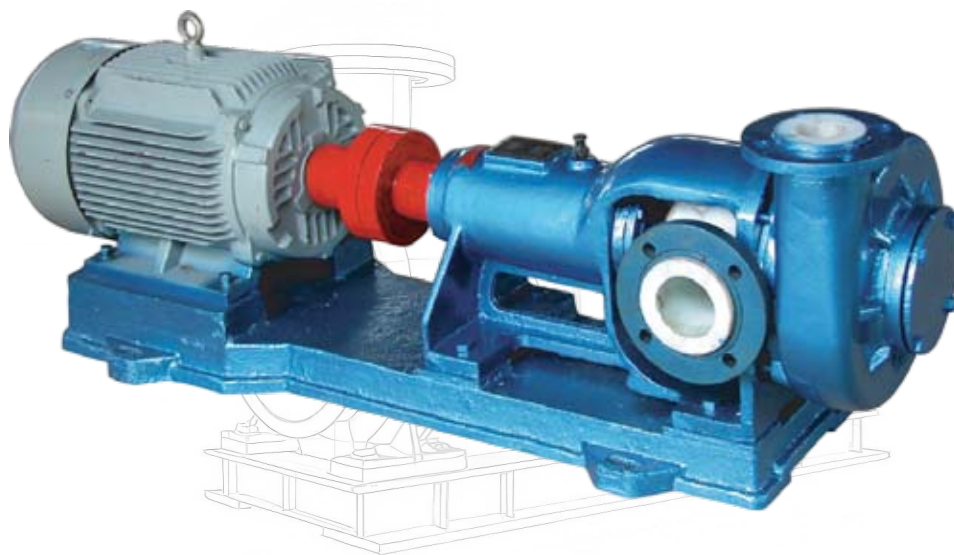
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Innovative Fluid Solutions The Choice of Trust

UHFM series corrosion-
resistant and wear-resistant
centrifugal pumps

PRODUCT CATALOG



Anhui Changyu Pump And Valve Manufacturing Co., Ltd.

UHFM-HJ series corrosion-resistant and wear-resistant centrifugal pumps

Professional services for the new energy and new materials industries

Features

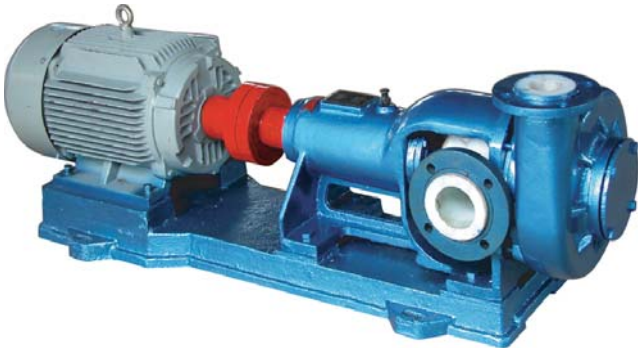
- The flow-through components are resistant to most highly corrosive media.
- The external sleeve-type rotating ring provides the mechanical seal with better resistance to slurry abrasion.
- The integrated rotating ring assembly reduces leakage points and improves the safety and reliability of the mechanical seal.
- The simple sealing structure makes installation and maintenance more convenient.

Applicable industries

- Lithium battery recycling and chemical smelting
- Various battery material production and chemical smelting
- Nickel, cobalt, lithium, copper, gold, silver, and rare earth chemical smelting
- Precious metal recycling and chemical smelting

UHFM(HJ) Steel-lined Plastic Filter Press Dedicated Pump

I. Product Introduction



UHFM-I type single-stage pump



UHFM-II type two-stage pump

The side-suction steel-lined plastic structure ensures that the seal does not bear positive pressure and prevents leakage. The two-stage pump delivers higher pressure, is corrosion-resistant and wear-resistant, and has a longer service life when paired with a double-end face cartridge seal. It is also more economical when paired with K-type or JS-type seals.

The UHFM series corrosion-resistant and wear-resistant filter press pumps were developed by our company in 2004 based on the special characteristics of pumps used in filter presses and filtration machines, namely the "three highs" (high abrasion, high corrosion, and high pressure). Over the past decade, through numerous improvements and refinements, the UHFM series filter press pumps have reached maturity in terms of service life, sealing technology, wear resistance, and the diversity and completeness of specifications and varieties. In terms of variety, we now offer single-stage and double-stage series, including single-stage low-pressure series (below 0.5MPa), single-stage high-pressure series (0.5~0.8MPa), double-stage low-pressure series (0.8~1MPa), and double-stage high-pressure series (1~1.4MPa). The inlet diameters range from $\phi 50$ to 250mm, and the flow rate range is 3~600m³/h. We have also developed plastic-lined and all-plastic series pumps to meet the needs of users with different requirements. Judging from the development trend of this pump, the company plans to develop UHFM series pumps with various materials and performance applications, and to develop towards larger-scale models in terms of variety, in order to meet the needs of various users.

The UHFM-HJ series centrifugal pumps are improved versions of the original UHFM back-suction corrosion-resistant and wear-resistant pumps. The improvements include:

Seal Improvement: The original K-type dynamic seal and JZ series cartridge seal have been replaced with the HJ cartridge mechanical seal.

Compared to the original sealing technology, the HJ series cartridge mechanical seal has the following significant features:

- ① The rotating and stationary ring seats are all made of fluoroplastics, and the rotating and stationary rings are made of pressureless sintered silicon carbide. Therefore, the parts of the mechanical seal that come into contact with the pumped liquid are all made of highly corrosion-resistant materials, overcoming the shortcomings of the original technology where some components of the mechanical seal were not corrosion-resistant. Thus, the improved HJ series mechanical seal can withstand the corrosion of almost all highly corrosive media.
- ② The rotating ring seat and metal mounting sleeve are integrated and heat-fused, reducing the number of components in the rotating ring section of the mechanical seal, thereby reducing leakage points and improving the safety and reliability of the mechanical seal.
- ③ The rotating ring structure has been optimized, and the external sleeve-type rotating ring provides better resistance to slurry abrasion.

- ④ The improved sealing structure is simple, making storage, transportation, installation, and maintenance more convenient .
- The improved seal enhances the pump's corrosion resistance, wear resistance, and leak resistance, thereby improving the pump's operational safety. Furthermore, the seal is less prone to damage and has a relatively low manufacturing cost, significantly reducing the user's pump operating costs, which has been well-received by users.

II. Technical Performance

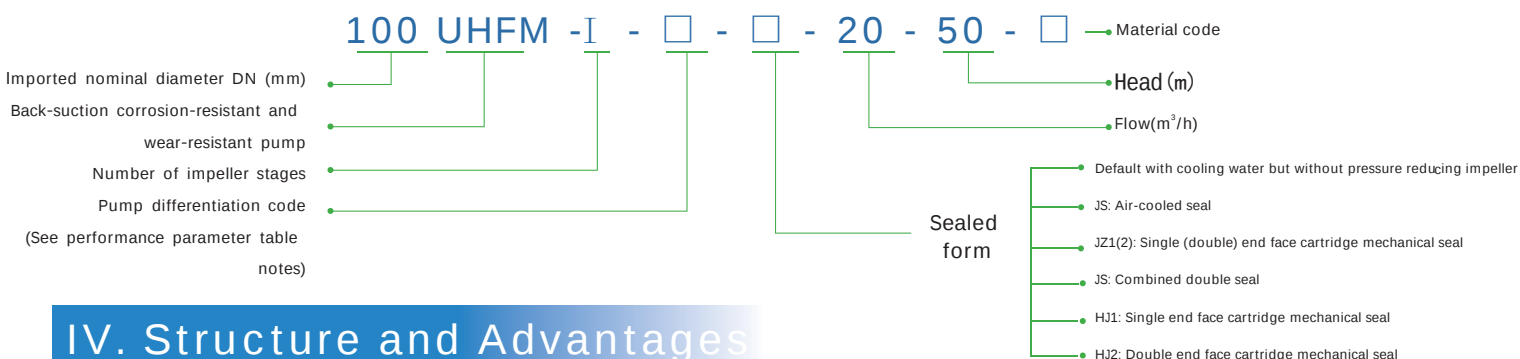
1. Main technical parameters: Operating temperature $-20^{\circ}\text{C}\sim 90^{\circ}\text{C}$, inlet diameter 65mm~200mm, solid content <30%.
2. Applicable media: Suitable for acidic and alkaline solutions and slurries with an operating temperature up to 90°C , including highly corrosive media such as hydrofluoric acid and chloride ions.

III. Scope of Application

1. New Energy Industry: Production and recycling of lithium battery raw materials.
 2. Non-ferrous Metals Smelting Industry: Smelting and processing of lithium, nickel, cobalt, gold, silver, copper, zinc, manganese, rare earth, and other metals; filter press applications; wastewater treatment and other media transportation.
 3. Sulfuric Acid and Phosphate Fertilizer Industry: Transportation of dilute acids, mother liquor, wastewater, seawater, silica-containing fluorosilicic acid, phosphoric acid slurry, etc.
 4. Chemical and Other Enterprises: Various sulfuric acid, hydrochloric acid, alkaline, and oil-based clear liquids or slurries. Titanium dioxide and iron oxide powder production; various dye and pigment production; non-metallic mineral processing, etc.
 5. Chlor-alkali Industry: Hydrochloric acid, liquid alkali, electrolytes, etc.
 6. Water Treatment Industry: Pure water, ultrapure water, wastewater (leather wastewater, electroplating wastewater, electronics wastewater, papermaking wastewater, textile wastewater, food wastewater, domestic wastewater, pharmaceutical wastewater, etc.).
 7. Steel Enterprises: Sulfuric acid and hydrochloric acid processes in pickling systems; wastewater containing impurities.
 8. Wet desulfurization circulating pump: Suitable for alkaline, acidic, and corrosive environments.
 9. Other operating conditions. (Please contact our company to confirm applicability.)
- I. This series of pumps can transport various corrosive and non-corrosive liquids and slurries with temperatures up to 100°C , or be used as pressurized feed pumps for various filter presses, such as: filter press pumps or process flow pumps in the hydrometallurgical processes of zinc, copper, cobalt, nickel, manganese, etc. in non-ferrous metals; slurry conveying pumps in mining beneficiation and non-metallic mineral processing (titanium dioxide, kaolin, etc.); sludge and waste residue conveying pumps in the environmental protection industry; and filter press pumps or pressure conveying pumps in other chemical, dye, pharmaceutical, and food production processes.
- II. Positions that require long-term high-pressure operation (high pump outlet pressure) for conveying corrosive media, such as pressure spray pumps and pressure flushing pumps in flue gas desulfurization and air pollution control.
- III. Positions where leaks are likely to occur when other pumps are conveying media.
- IV. This pump is available in single-stage and double-stage series, suitable for positions requiring low-flow, high-pressure conveying of corrosive slurries.
- Unsuitable positions: Positions where the liquid level at the suction inlet is less than 0.5m below the pump position or where the suction inlet negative pressure is excessive.

V. Model Description

4.1 Model Description



IV. Structure and Advantages

The UHFM series leak-free, corrosion-resistant, and wear-resistant pump is a new type of lined, rear-suction (shaft seal position is in the same direction as the inlet) corrosion-resistant and wear-resistant pump (see figure below). This pump is a new type of pressure transfer pump developed by addressing the issue of easy seal leakage in ordinary corrosion-resistant and wear-resistant pumps during operation. It incorporates five innovative technologies (patented). Its main features are:

I. The pump inlet is in the same direction as the shaft seal, and the shaft seal is under negative pressure, so there will be no leakage. This overcomes the problem that the original corrosion-resistant and wear-resistant pumps are easily damaged and the shaft seal is prone to leakage.

II. Wide range of applications: This pump is available with a variety of interchangeable lining materials, making it suitable for conveying various chemically corrosive and abrasive liquids and slurries. Moreover, the spare parts made of different materials are highly interchangeable, making it extremely convenient for users to adjust.

III. Low operating costs: There are two main factors contributing to this. First, the pump cover and suction inlet, which are easily replaced, adopt a separate structure, providing independent corrosion-resistant and wear-resistant parts for convenient and economical replacement. Second, the pump seal does not use a back impeller for pressure reduction, saving shaft power consumption and energy.

IV. Another advantage of the UHFM-II type two-stage corrosion-resistant and wear-resistant slurry pump is its good wear resistance. Because it achieves a higher pump outlet pressure with a lower single impeller linear velocity, it overcomes the disadvantage of single-stage slurry pumps that increase impeller linear velocity to increase pressure, which leads to increased wear of impeller and pump casing. This effectively improves the service life of wear parts such as impeller and pump cover.

V. Due to its high pressure, the UHFM-II type dual-stage corrosion-resistant and wear-resistant pump has a good filtration effect and low moisture content in the filter cake when used with a high-pressure filter press, overcoming the disadvantage of insufficient pump pressure when used with a filter press.



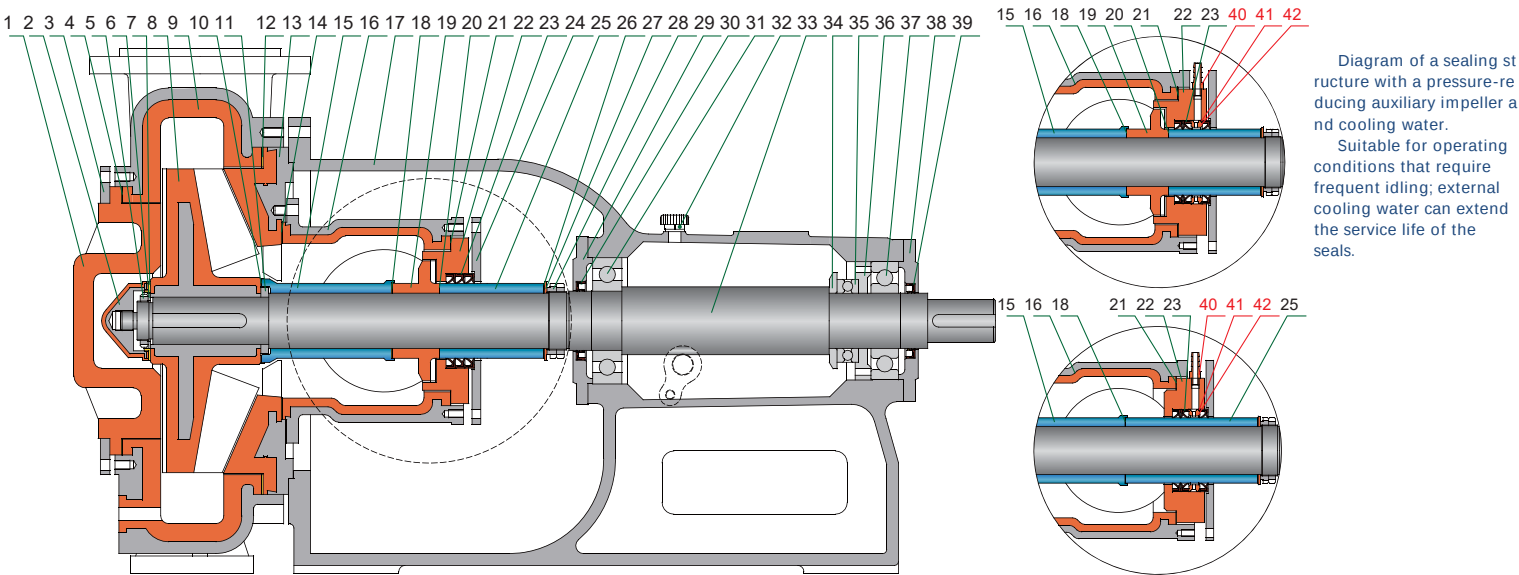
UHFM-II Filter Press with Pressure Feed Pump Prototype

Selection of flow material

- 1.The default material is modified ultra-high molecular weight polyethylene (UHMWPE): suitable for conveying corrosive and abrasive slurries up to 100 .
- 2.Corrosion-resistant and wear-resistant stainless steel (B): suitable for conveying abrasive slurries up to 110 . It is particularly effective for conveying high-temperature slurries in high-temperature leaching processes such as electrolytic zinc and electrolytic manganese.
- 3.Fluoroplastics (F): primarily suitable for conveying media containing solvents and strong oxidizing media, such as concentrated nitric acid.
- 4.Polyurethane rubber (PU): primarily suitable for applications requiring low corrosivity but high abrasiveness, such as slag discharge pumps or pumps used with hydrocyclones in mineral processing.
- 5.For flow-through components requiring stainless steel, A3 steel, or other metal materials, please contact our company!

VI. Simplified structural diagram of the pump

Structural diagram of UHFM-I type single-stage pump

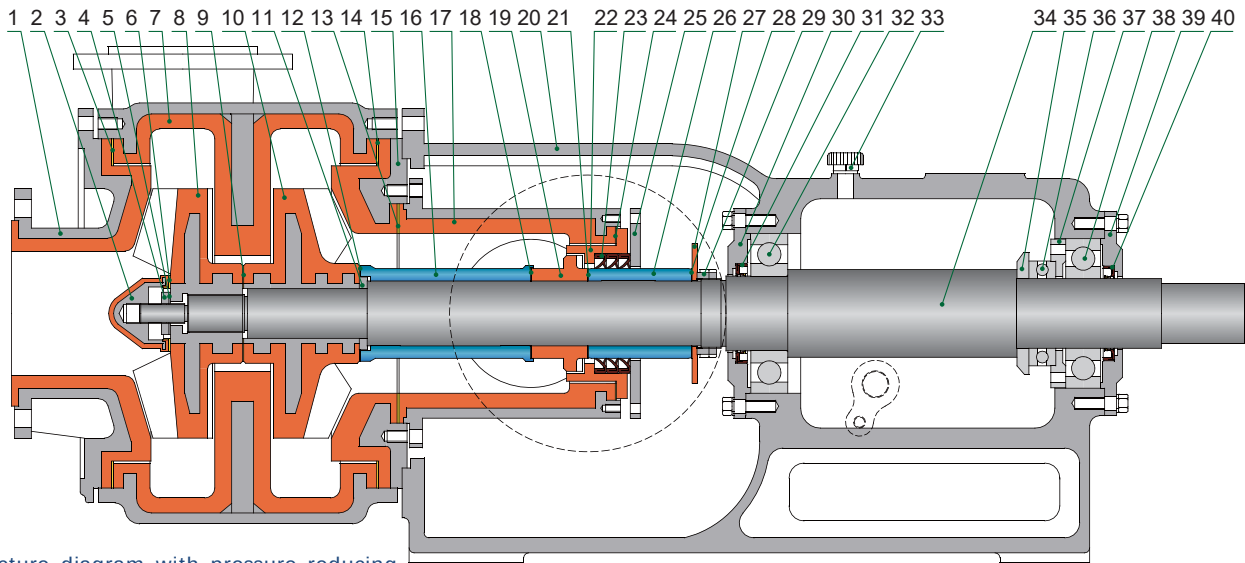


Pump structure diagram with pressure reducing auxiliary impeller , without cooling water.

Note: The red numbers indicate the differences from the main structure diagram.

Numbe	Component Name	Material	Number	Component Name	Material	Number	Component Name	Material
* 1*	Front pump cover	UHMWPE	*15*	Front axle sleeve	99 Porcelain	29	Front bearing side cover	HT-200
2	Locking nut	UHMWPE/A3	16	Inlet tee	UHMWPE/QT	30	Front bearing oil seal	Neoprene rubber
3	Front pump cover clamping ring	QT	17	Bearing housing	HT-200	31	Front bearing	
* 4	Front pump cover gasket	FPM	*18.	Front axle bushing gasket	FPM	32	Oil plug	NBR/Al
5	Anti-rotation nut	A3	19*	Reduced pressure auxiliary impeller	75 Porcelain	33	Spindle	40Crsteel
6	Washer	A3	20*	Reduced pressure auxiliary impeller gasket	FPM	34	Shoulder transition ring 1	QT
* 7*	Locking nut L-wasp	FPM	21*	Sealing box gasket	FPM	35	Shore bearing	
8*	Impeller	UHMWPE/A3	22*	Sealing box	Fiberglass	36	Shoulder transition ring 2	QT
9* 10	Pump casing	UHMWPE/QT	23	K-ring seal	F4/FPM	37	Rear bearing	
11	Impeller gasket	FPM	24	Sealing box cover	A3	38	Rear bearing side cover	HT-200
12	Impeller top ring	45#steel	*25	Rear axle sleeve	99 Porcelain	39	Rear bearing oil seal	Neoprene rubber
13*	Rear pump cover gasket	FPM	26	Rear axle bushing gasket	FPM	40	Cooling nozzle	PP
14	Rear pump cover	UHMWPE/QT	27	Acid-resistant plate	Fiberglass	41	O-ring	FPM
	Inlet tee mattress	FPM	28	Spindle cap	45#steel	42	Water seal ring	Fiberglass

Structural diagram of UHFM-II type two-stage pump



Pump structure diagram with pressure reducing auxiliary impeller, without cooling water.

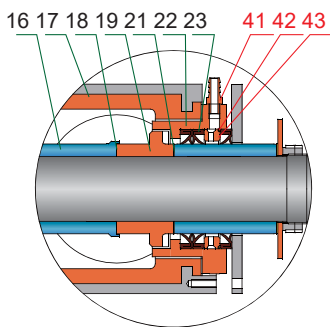


Diagram of a sealing structure with a pressure-reducing auxiliary impeller and cooling water.

Suitable for operating conditions requiring frequent idle operation; external cooling water can extend the seal's service life.

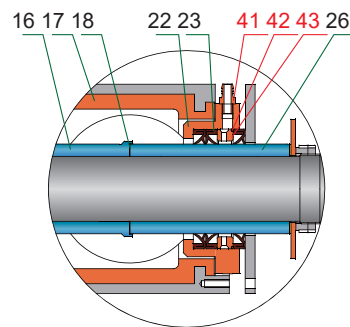


Diagram of a sealing structure without a pressure-reducing impeller and with cooling water.

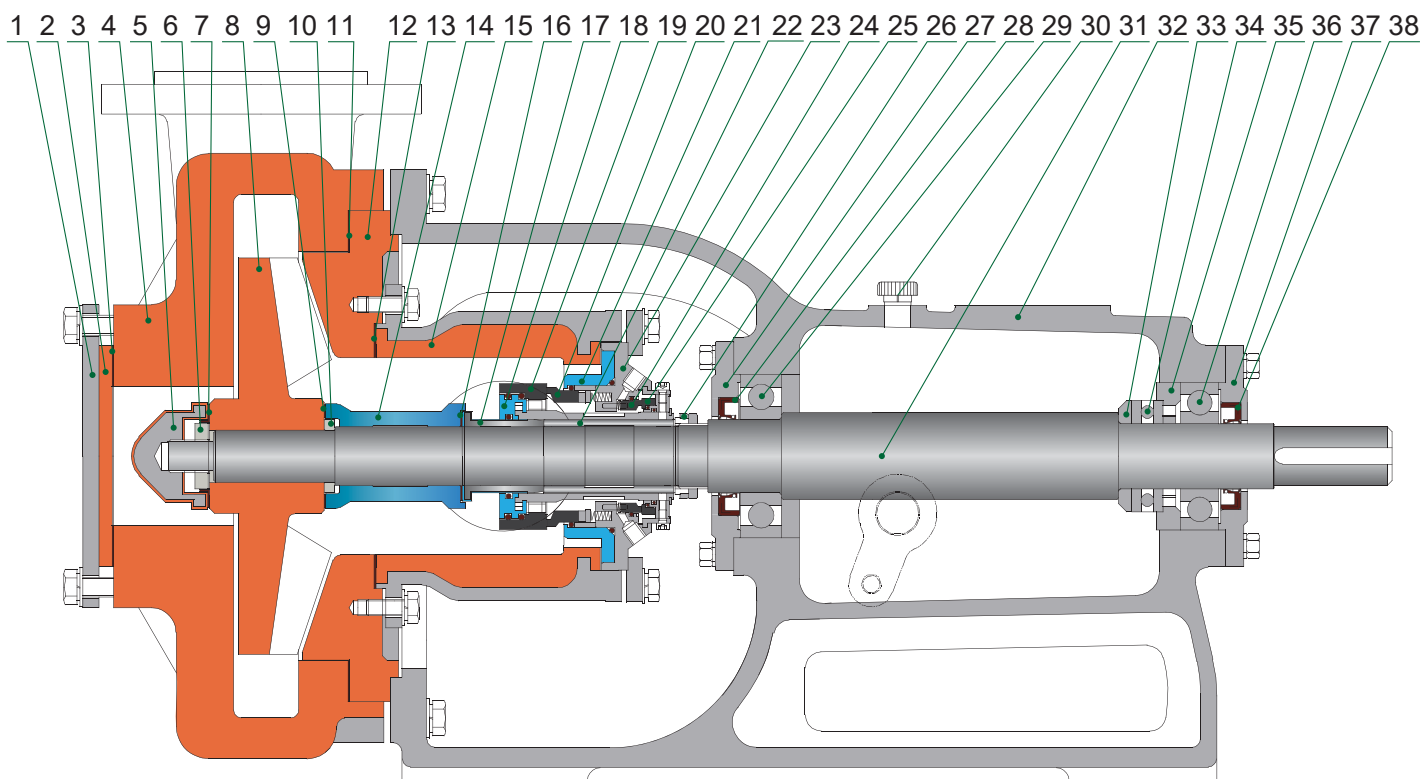
Suitable for operating conditions with low outlet pressure or frequent no-load operation. No pressure reduction is required at the sealing point, and external cooling water can extend the seal's service life.

Note: The red numbers indicate the differences from the main structural diagram. The elbow connection of the two-stage pump is not shown in the diagram; please refer to the appearance diagram on the cover of the instruction manual.

Number	Component Name	Material	Number	Component Name	Material	Number	Component Name	Material
* 1*	Front pump cover	UHMWPE/QT	*16*	Front axle sleeve	99Porcelain	31	Front bearing oil seal	Neoprene rubber
2*	Locking nut	UHMWPE/A3	17*	Inlet tee	UHMWPE/QT	32	Front bearing	
3	Front pump cover gasket	FPM	18*	Front axle bushing	FPM	33	Oil plug	NBR/Al
4	Anti-rotation nut	A3	19	Pressure reducing auxiliary impeller	75Porcelain	34	Spindle	40Crsteel
5	Washer	A3	20	Bearing housing	HT-200	35	Shoulder transition ring1	QT
* 6*	Locking nut L-wasp	FPM	*21*	Pressure reducing auxiliary impeller pad	FPM	36	Side bearing	
7*	Pump casing	UHMWPE/QT	22*	Sealing box	Fiberglass	37	Shoulder transition ring2	QT
8*	second stage impeller	UHMWPE/A3	23*	K-ring	F4/FPM	38	Rear bearing	
*10	Secondary impeller pad	FPM	24	Sealing box gasket	FPM	39	Rear bearing side cover	HT-200
11	First stage impeller	UHMWPE/A3	25	Sealing box cover	A3	40	Rear bearing oil seal	Neoprene rubber
12*	Impeller top ring	45*steel	*26	Rear axle sleeve	99Porcelain	41	Cooling nozzle	PP
13*	Primary impeller pad	FPM	27	speed acid plate	Fiberglass	42	O-ring	FPM
14*	Suction inlet tee pad	FPM	*28	speed rear axle bushing gasket	FPM	43	Water seal ring	Fiberglass
15	Rear pump cover gasket	FPM	29	Spindle cap	45*steel			
	Rear pump cover	UHMWPE/QT	30	front bearing side cover	HT-200			

Note: Items marked with an asterisk (*) before their serial numbers are consumable parts and are provided for users' reference when purchasing spare parts.

Structural diagram of UHFM-HJ type single-stage pump



Number	Component Name	Material	Number	Component Name	Material	Number	Component Name	Material
1	Cover (Iron)	A3	*15	Inlet tee	UHMWPE/QT	29	Front bearing	
* 2	Cover (Plastic)	UHMWPE	*16	bushing gasket	F26B	30	Oil plug	NBR/Al
* 3	Cover Gasket	F26B	*17	Bushing 1	Stainless steel	31	Spindle	40Crsteel
* 4	Pump Casing	UHMWPE/QT	*18	Rotating ring seat		32	Bearing housing	HT-200 QT
5	Lock Nut	UHMWPE/A3	*19	Medium end rotating ring	SSIC	33	Shoulder transition ring 1	
6	Washer	A3	*20	Medium end stationary ring	SSIC	34	Side bearing	
* 7	Lock Nut L-Wash	F26B	*21	September sleeve	F46	35	Shoulder transition ring 2	QT
* 8	Impeller	UHMWPE/A3	*22	Bushing 2	Stainless steel	36	Rear bearing	
* 9	Impeller Gasket	F26B	*23	Mechanical seal base	Stainless steel	37	Rear bearing side cover	HT-200
10	Impeller Top Ring	45# steel	*24	Atmospheric end rotating ring	SSIC	38	Rear bearing oil seal	Neoprene rubber
*11	Rear Pump Cover Gasket	F26B	*25		SSIC			
*12	Rear Pump Cover	UHMWPE/QT	*26	Spindle cap	45# steel			
*13	Suction Inlet Tee Gasket	F26B	27	Front bearing side cover	HT-200			
*14	Front Shaft Sleeve	99Porcelain	28	Front bearing oil seal	Neoprene rubber			

Note:

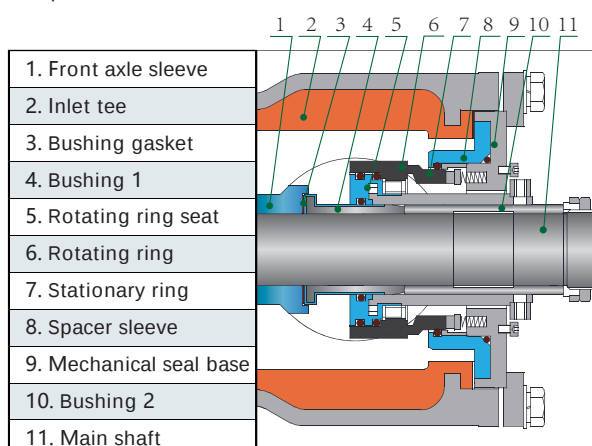
Items marked with an asterisk (*) are consumable parts, provided for user reference when purchasing spare parts;
 Some pump front covers and front cover clamping rings are in the form of blind caps or blind cap clamping plates;
 Some pump rear covers have a rear cover connecting ring (QT material) between the pump rear cover and the bearing housing, with specifications: 100UHFM-I-M, 125UHFM-I-M, 150UHFM-I-M, 200UHFM-I-M.
 Some pump acid baffles have a transition sleeve (QT material) between the pump baffle plate and the main shaft cap, with specifications: 100UHFM-I-M, 125UHFM-I-M, and imported DN150 and above (except 250UHFM-I).

The UHFM-II type two-stage pump can also be equipped with the HJ cartridge mechanical seal.

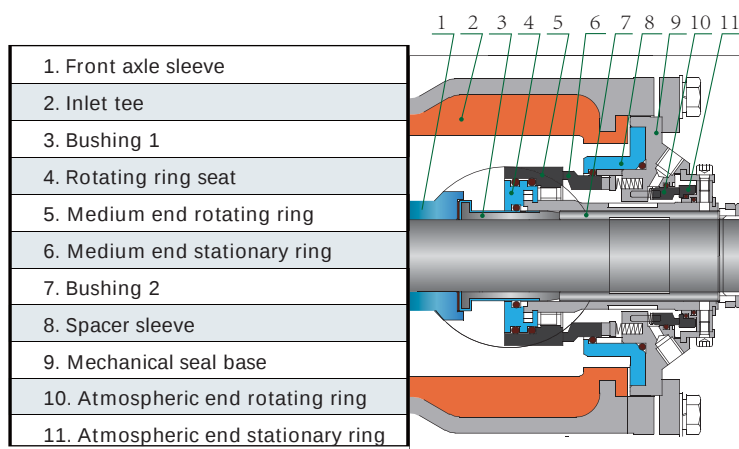
7.1 Simplified Structure and Introduction of HJ1/HJ2 Cartridge Mechanical Seals

The HJ series cartridge mechanical seals are characterized by at least one set of dynamic and static ring sealing faces. Through the elastic force of the compensating mechanism's springs, the sealing surfaces are brought into contact to form a relative sliding friction pair, thereby preventing leakage. Classified by sealing structure, there are two sealing forms: single-end face (HJ1) and double-end face (HJ2). In terms of sealing materials, different flow-through materials can be configured according to different operating conditions. The main flow-through component materials include: dynamic and static rings (SSic, Sic); shaft sleeves and other flow-through components (steel liners F46, O-rings, gaskets, fluororubber); other supporting components can be made of non-metallic ceramics, PPS, or metallic materials such as 2205, 2507, 904, and titanium. Due to the optimized configuration of the structure and materials, it meets the requirements of different chemical media, different solid content, and different operating media.

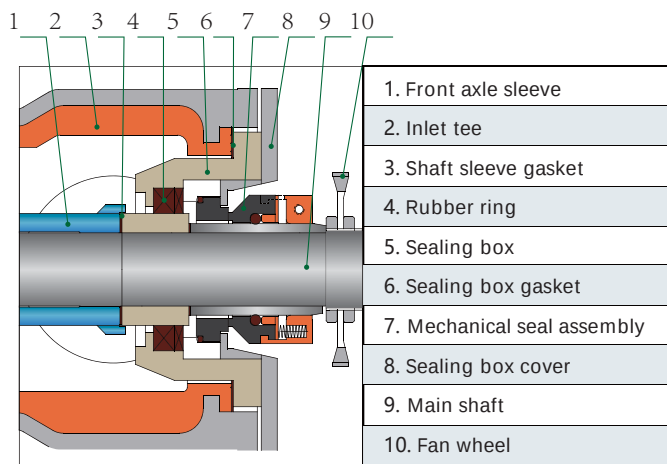
Meanwhile, since the seal uses F46 fluoroplastic as the main material for the flow-through parts, it can completely avoid metal parts from contacting or contaminating the medium. The selection of sealing materials partially replaces the use of precious metals, making the seal safer and non-contaminating to the material components. Its high cost-effectiveness is also a highlight of its design, development and use.



HJ1 Single-End Face Container Mechanical Seal Structure Diagram



HJ2 Double-End Container Mechanical Seal Structure Diagram



1. Structural Features:

The JS combined double seal (see left figure) is a pump shaft seal that combines a dynamic seal and a mechanical seal. The dynamic seal is on the impeller side, and the mechanical seal is on the motor side. There is a liquid storage chamber between the two seals, which contains a heat-conducting medium. The mechanical seal part has a fan or impeller for airflow and heat dissipation.

2. Usage Features:

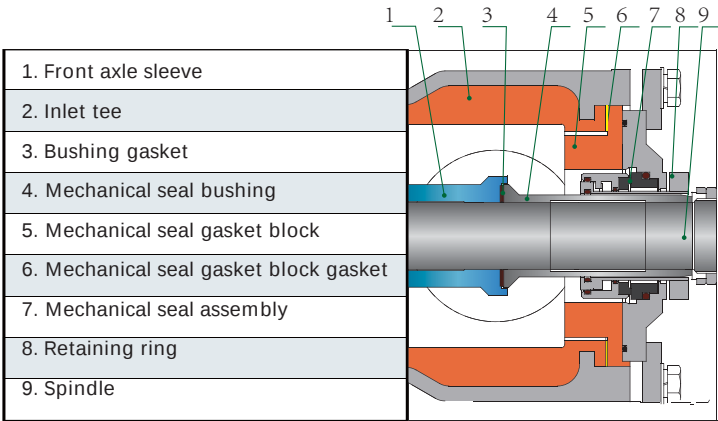
The JS combination seal has a self-cooling system and a self-lubricating system. Therefore, no external cooling water is required during use. This seal is suitable for centrifugal pumps conveying corrosive and non-corrosive media such as slurries or clear liquids, including front-suction, side-suction, single-stage, or two-stage centrifugal pumps.

3. The Scientific Nature and Working Principle of the Combined Seal

Its scientific nature lies in: organically linking and combining the sand-blocking function of the dynamic seal, the liquid-storing function of the liquid-storing chamber, the liquid-sealing function of the mechanical seal, the heat conduction and lubrication functions of the liquid-storing chamber, and the heat dissipation function of the impeller to form a new type of seal with special overall functions. Its novelty lies in: first, it can transport slurry; second, it does not require external cooling water flushing; and third, it can run dry for appropriate periods.

Its working principle is as follows: the dynamic seal acts as a sand-blocking barrier at the front, sealing the mortar; the mechanical seal stores liquid (clear liquid or grease) in the liquid reservoir at the rear, which lubricates the dynamic and static rings of the mechanical seal, the shaft sleeve, and the lip seal. Simultaneously, it also transfers heat energy, conducting heat from the sealing area to the heat dissipation device on the outside of the seal. The impeller's function is to dissipate heat from the sealing area during pump operation, ensuring the safe operation of the shaft seal.

The scientific nature of the JS combined double seal lies in combining the independent functions of each component, enabling them to cooperate, interact, complement each other, and depend on each other, forming a unified, advanced sealing system with lubrication, cooling water, sand-blocking, and leak-proof functions during both start-up and shutdown, while also allowing for appropriate no-load operation.



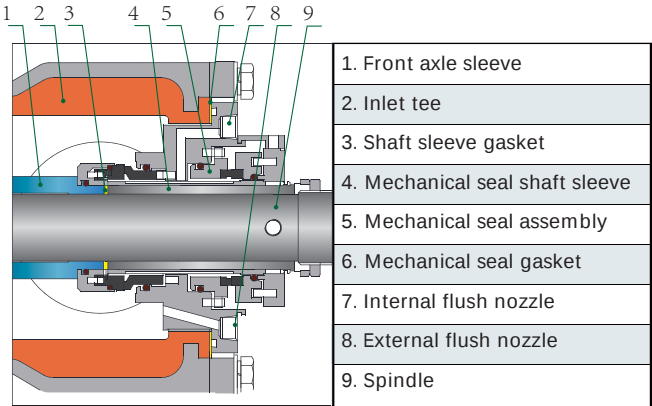
The JZ1 single-end face cartridge mechanical seal features a stainless steel housing and is suitable for pumps with a solids content below 25%. Common seal materials include: 940L stainless steel, 316L stainless steel, and duplex stainless steel 2205.

Cooling water requirements:
1. Use clean water or tap water at a pressure of 0.3MPa and a flow rate of 30-120L/h. All flushing water should enter the pump chamber; there is no cooling water outlet, resulting in a long seal lifespan. Note: Cooling water must be connected before operation or commissioning in either forward or reverse direction; otherwise, the seal will be damaged!

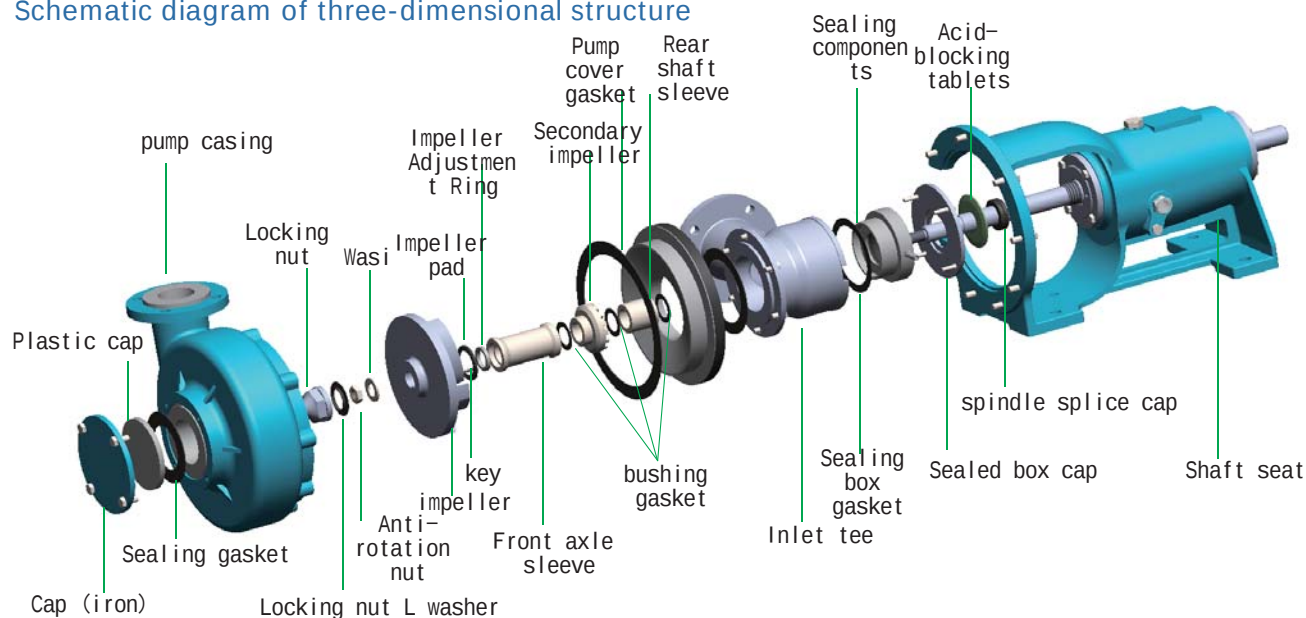
2. For solids content less than 10%, cooling water is not required. Simply block the cooling water inlet during use. Note: If the seal does not have internal or external flushing water, the pump chamber must be filled with liquid before commissioning and operation!

The JZ2 double-end face cartridge mechanical seal boasts advantages such as long service life, stable operation, and convenient installation and maintenance. Its unique internal flushing system provides lubrication and cooling while effectively preventing the accumulation of solid particles on the sealing ring, thus extending the seal's service life. Technical parameters: Pressure 0 ~ 0.6MPa, Temperature -20 ~ 90℃, Solid content ≤20%, Main body material can be duplex stainless steel or 316L, Dynamic and stationary rings are made of pressureless sintered silicon carbide.

Usage Precautions: Do not operate the seal chamber without water! Before pump operation, both internal and external flushing water must be connected simultaneously and be clean. External flushing water can flow by gravity, with a pressure of approximately 0.05MPa and a flow rate of approximately 5L/min; internal flushing water pressure should be greater than 0.3MPa, with a flow rate of approximately 8L/min. When stopping use, the pump must be turned off first, followed by the flushing water, and the internal flushing water valve must also be closed (to prevent slurry backflow).



Schematic diagram of three-dimensional structure



VIII. Performance Parameter Table

8.1 Performance Parameter Table of UHFM-I Type Single-Stage Pump

Num ber	Model	Speed = 2900 r/min				Density= 1000 kg/m ³		
		flow (m ³ /h)	head (m)	import (mm)	exit (mm)	Equipped with motor	speed (r/min)	weight (kg)
1	50UHFM- I	5	25	50	40	2.2kW- 2	2900	180
2		5	30			3kW- 2	2900	180
3		5	35			3kW- 2	2900	190
4		5	40			4kW- 2	2900	200
5		10	25			3kW- 2	2900	190
6		10	30			4kW- 2	2900	200
7		10	35			5.5kW- 2	2900	220
8		10	40			7.5kW- 2	2900	220
9		15	25			3kW- 2	2900	190
10		15	30			4kW- 2	2900	200
11		15	35			5.5kW- 2	2900	220
12		15	40			7.5kW- 2	2900	220
13		20	25			4kW- 2	2900	200
14		20	30			5.5kW- 2	2900	220
15	65UHFM- I	20	35	65	50	7.5kW- 2	2900	320
16		20	40			7.5kW- 2	2900	320
17		20	50			11kW- 2	2900	350
18		30	35			11kW- 2	2900	350
19		30	40			11kW- 2	2900	350
20		30	50			15kW- 2	2900	350
21	65UHFM -I -H	10	60	65	50	11kW- 2	2900	350
22		10	70			15kW- 2	2900	350
23		15	80			15kW- 2	2900	350
24		20	60			15kW- 2	2900	350
25		20	70			18.5kW- 2	2900	350

Num ber	Model	Speed = 2900 r/min				Density= 1000 kg/m ³		
		flow (m ³ /h)	head (m)	import (mm)	exit (mm)	Equipped with motor	speed (r/min)	weight (kg)
26	65UHFM-I-H	20	75	65	50	18.5kW-2	2900	350
27		25	73			18.5kW-2	2900	350
28		30	70			22kW-2	2900	365
29		35	70			22kW-2	2900	400
30	80UHFM-I	40	35	80	65	11kW-2	2900	350
31		40	40			15kW-2	2900	350
32		40	50			18.5kW-2	2900	360
33		45	35			15kW-2	2900	350
34		45	40			15kW-2	2900	350
35		45	50			18.5kW-2	2900	360
36	80UHFM-I-H	25	80	80	65	22kW-2	2900	400
37		30	60			18.5kW-2	2900	365
38		30	70			22kW-2	2900	400
39		40	60			22kW-2	2900	400
40		40	70			30kW-2	2900	500
41		40	75			30kW-2	2900	500
42		45	73			30kW-2	2900	500
43		50	60			30kW-2	2900	500
44		50	70			30kW-2	2900	500
45		60	70			37kW-2	2900	500
46	100UHFM-I	50	35	100	80	15kW-2	2900	350
47		50	40			18.5kW-2	2900	360
48		50	50			22kW-2	2900	400
49		60	35			18.5kW-2	2900	350
50		60	40			18.5kW-2	2900	360
51		60	45			22kW-2	2900	400
52		60	50			22kW-2	2900	400
53		80	35			18.5kW-2	2900	360
54		80	40			22kW-2	2900	400
55		100	35			22kW-2	2900	400
56	100UHFM-I-H	40	80	100	80	30kW-2	2900	520
57		50	60			30kW-2	2900	520
58		50	70			30kW-2	2900	520
59		60	60			30kW-2	2900	520
60		60	70			37kW-2	2900	520
61		80	50			30kW-2	2900	520
62		80	60			37kW-2	2900	520
63		100	40			30kW-2	2900	520
64		100	50			37kW-2	2900	520
65		60	80			45kW-2	2900	600
66		80	70			45kW-2	2900	600
67		100	60			45kW-2	2900	600
68		120	60			55kW-2	2900	650
69	125UHFM-I-H	100	45	125	100	37kW-2	2900	520
70		100	75			55kW-2	2900	665
71		130	70			55kW-2	2900	665
72		150	40			45kW-2	2900	580
73		100	65			45kW-2	2900	580
74		130	60			55kW-2	2900	665
75		150	55			55kW-2	2900	665

Number	Model	Speed = 2900 r/min				Density= 1000 kg/m³		
		flow (m³/h)	head (m)	import (mm)	exit (mm)	Equipped with motor	speed (r/min)	weight (kg)
1	50UHFM-I	5	10	50	40	0.75kW-4	1450	180
2		7.5	10			0.75kW-4	1450	180
3		10	10			1.1kW-4	1450	180
4	65UHFM-I-H	5	15	65	50	2.2kW-4	1450	280
5		5	17.5			2.2kW-4	1450	280
6		10	15			2.2kW-4	1450	280
7		10	17.5			2.2kW-4	1450	280
8		15	15			3kW-4	1450	280
9		15	17.5			3kW-4	1450	280
10		30	28			7.5kW-4	1450	280
11		35	26			7.5kW-4	1450	280
12	80UHFM-I	20	15	80	65	3kW-4	1450	300
13		25	15			3kW-4	1450	300
14		25	17.5			4kW-4	1450	300
15	80UHFM-I-H	15	15	80	65	2.2kW-4	1450	300
16		15	17.5			3kW-4	1450	300
17	80UHFM-I-M1	40	35	80	65	11KW-4	1450	500
18		45	32			11KW-4	1450	500
19		50	30			11KW-4	1450	500
20	100UHFM-I	25	15	100	80	3kW-4	1450	250
21		25	17.5			4kW-4	1450	250
22		50	15			5.5kW-4	1450	300
23		50	17.5			7.5kW-4	1450	300
24	100UHFM-I-H	30	15	100	80	4kW-4	1450	250
25		30	17.5			4kW-4	1450	250
26		40	15			5.5kW-4	1450	300
27		40	17.5			5.5kW-4	1450	300
28	100UHFM-I-M	60	75	100	80	30kW-4	1450	1170
29		60	85			37kW-4	1450	1250
30		80	72			37kW-4	1450	1250
31		80	85			45kW-4	1450	1300
32		100	70			45kW-4	1450	1300
33		100	80			55kW-4	1450	1390
34		120	68			55kW-4	1450	1390
35		120	75			75kW-4	1450	1500
36	100UHFM-I-M1	60	35	100	80	15KW-4	1450	550
37		70	33			15KW-4	1450	550
38		80	32			18.5KW-4	1450	600
39		100	30			22KW-4	1450	620
40	125UHFM-I-M	80	70	125	100	37kW-4	1450	1260
41		80	85			45kW-4	1450	1300
42		100	70			45kW-4	1450	1300
43		100	85			55kW-4	1450	1385
44		120	70			55kW-4	1450	1385
45		120	85			75kW-4	1450	1550
46		130	68			55kW-4	1450	1385
47		140	65			75kW-4	1450	1500
48		150	62			75kW-4	1450	1500
49	125UHFM-I-M1	100	35	125	100	22KW-4	1450	650
50		110	32			22KW-4	1450	650
51		120	30			22KW-4	1450	650

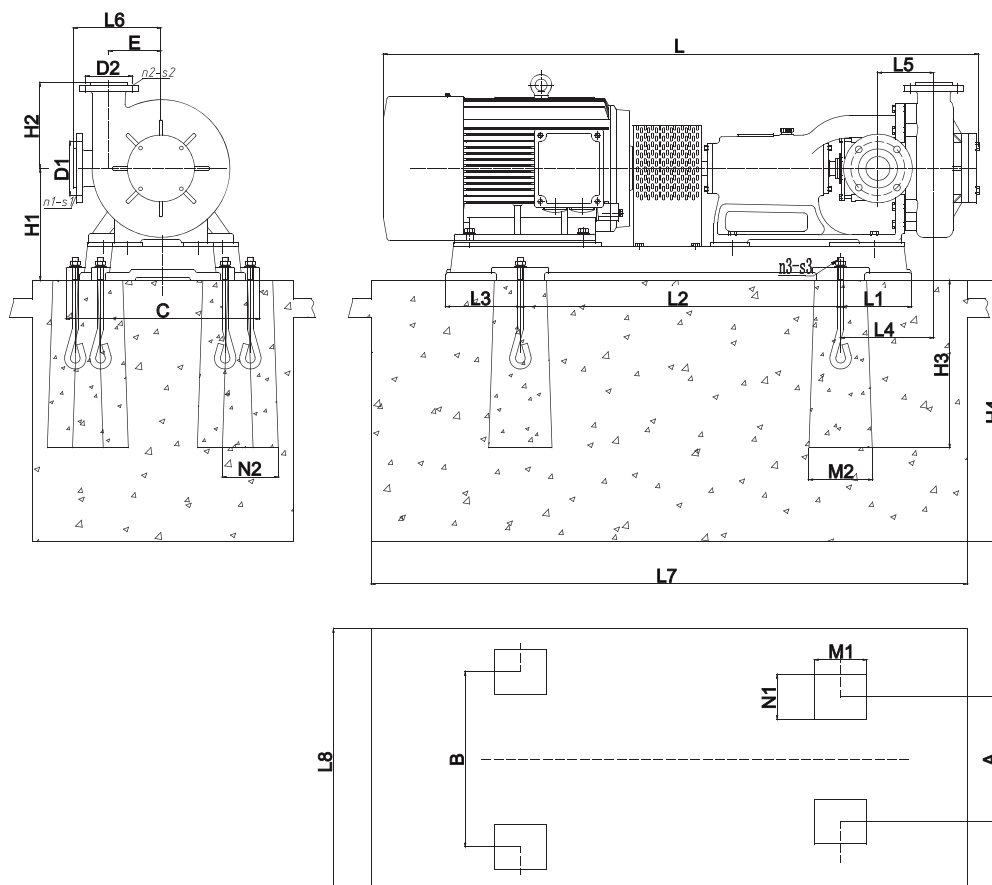
Num ber	Model	Speed = 2900 r/min				Density= 1000 kg/m³		
		flow (m³/h)	head (m)	import (mm)	exit (mm)	Equipped with motor	speed (r/min)	weight (kg)
52	150UHFM - I	120	40	150	125	37kW-4	1450	1210
53		150	40			45kW-4	1450	1240
54		200	32			45kW-4	1450	1240
55		250	30			45kW-4	1450	1240
56		300	25			45kW-4	1450	1240
57	150UHFM - I - M	100	90	150	125	75kW-4	1450	1550
58		120	85			75kW-4	1450	1550
59		150	70			75kW-4	1450	1550
60		150	85			90kW-4	1450	1680
61		180	68			90kW-4	1450	1680
62		180	80			90kW-4	1450	1680
63		200	66			90kW-4	1450	1680
64		200	72			110kW-4	1450	1980
65		200	75			110kW-4	1450	1980
66	200UHFM - I	250	45	200	150	75kW-4	1450	1240
67		300	38			75kW-4	1450	1240
68		320	24			45kW-4	1450	1090
69		320	32			55kW-4	1450	1210
70		350	20			45kW-4	1450	1090
71		350	28			55kW-4	1450	1210
72		350	34			75kW-4	1450	1240
73		400	18			45kW-4	1450	1090
74		400	25			75kW-4	1450	1240
75		500	12			45kW-4	1450	1090
76	200UHFM - I - M	120	85	200	150	75kW-4	1450	1650
77		150	75			75kW-4	1450	1650
78		150	83			90kW-4	1450	1700
79		180	73			90kW-4	1450	1700
80		200	70			90kW-4	1450	1700
81		200	80			110kW-4	1450	1845
82		250	67			110kW-4	1450	1845
83		250	75			132kW-4	1450	2050
84	200UHFM - I - AH	200	75	200	150	110kW-4	1450	2450
85		200	80			110kW-4	1450	2450
86		250	72			132kW-4	1450	2450
87		250	76			132kW-4	1450	2450
88		300	70			132kW-4	1450	2450
89		350	60			132kW-4	1450	2450
90		350	68			132kW-4	1450	2450
91	250UHFM - I	300	65	250	200	132kW-4	1450	2520
92		350	63			132kW-4	1450	2520
93		400	55			132kW-4	1450	2520
94		400	63			160kW-4	1450	2620
95		500	52			160kW-4	1450	2620
96		500	60			185kW-4	1450	2620
97		600	49			185kW-4	1450	2620
98		600	56			200kW-4	1450	2690
99		700	45			185kW-4	1450	2620
100		700	52			200kW-4	1450	2690
101		800	42			200kW-4	1450	2690
102		800	48			220kW-4	1450	3290

8.2 Performance Parameter Table of UHFM-II Single-Stage Pump

Num ber	Model	Speed = 2900 r/min				Density= 1000 kg/m ³		
		flow (m ³ /h)	head (m)	import (mm)	exit (mm)	Equipped with motor	speed (r/min)	weight (kg)
1	65UHFM-II	10	60	65	50	11kW- 2	2900	370
2		10	70			11kW- 2	2900	370
3		10	80			15kW- 2	2900	370
4		10	90			15kW- 2	2900	370
5		10	100			22kW- 2	2900	370
6		15	60			11kW- 2	2900	370
7		15	70			15kW- 2	2900	370
8		15	80			15kW- 2	2900	370
9		15	90			18.5kW- 2	2900	380
10		15	100			22kW- 2	2900	420
11		30	80			22kW- 2	2900	420
12		30	90			30kW- 2	2900	480
13		30	100			37kW- 2	2900	480
14	80UHFM-II	20	60	80	65	15kW- 2	2900	370
15		20	70			15kW- 2	2900	370
16		20	80			18.5kW- 2	2900	480
17		30	60			18.5kW- 2	2900	480
18		30	70			22kW- 2	2900	500
19		30	80			22kW- 2	2900	500
20		30	90			30kW- 2	2900	600
21		30	100			37kW- 2	2900	600
22	80UHFM-II - H	30	120	80	65	30kW- 2	2900	600
23		40	100			30kW- 2	2900	600
24	100UHFM-II	40	60	100	80	18.5kW- 2	2900	520
25		40	70			22kW- 2	2900	580
26		40	80			30kW- 2	2900	600
27		50	60			22kW- 2	2900	580
28		50	70			30kW- 2	2900	600
29		50	80			30kW- 2	2900	600
30		50	90			37kW- 2	2900	650
31		50	100			45kW- 2	2900	700
32		60	55			30kW- 2	2900	600
33		60	60			30kW- 2	2900	600
34		60	70			37kW- 2	2900	650
35		60	80			37kW- 2	2900	650
36		60	90			45kW- 2	2900	700
37		70	50			30kW- 2	2900	600
38		70	60			37kW- 2	2900	650
39		70	70			37kW- 2	2900	650
40		70	80			45kW- 2	2900	700
41		70	90			55kW- 2	2900	750
42		80	50			37kW- 2	2900	650
43		80	60			37kW- 2	2900	650
44		80	70			45kW- 2	2900	700
45		80	80			55kW- 2	2900	750
46		80	90			55kW- 2	2900	750
47	100UHFM-II - H	60	120	100	80	45kW- 2	2900	750
48		80	100			55kW- 2	2900	800

Note: In the pump differentiation codes, H, H2, and AH indicate high-lift pumps, and M indicates slow-speed pumps; Differentiated pumps do not use interchangeable parts with conventional pumps. Please confirm with our company for details; The motor power values provided in the table are reference values when density $\rho=1$. The actual motor power should be greater than the shaft power $\times$ medium density ρ .

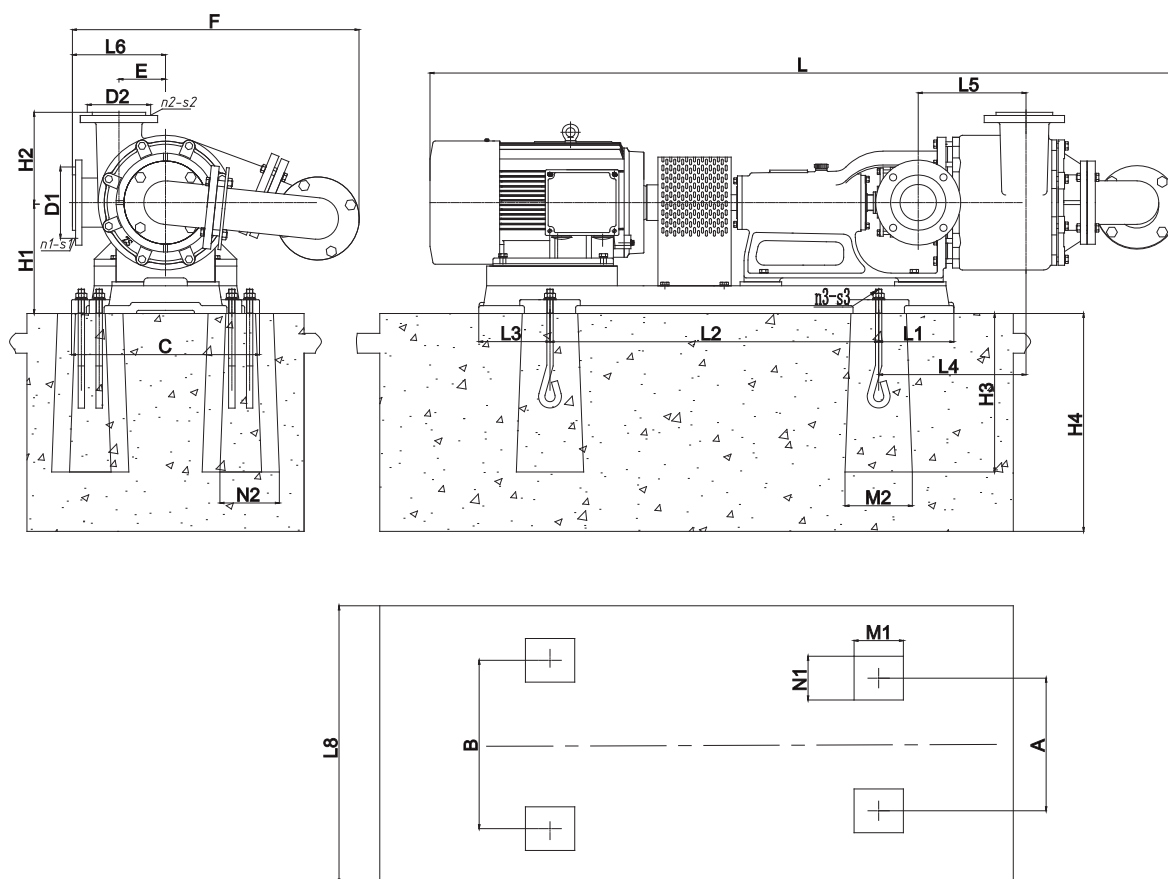
IX. Pump outline drawing and installation dimension table



Model	Power (kw)	A	B	C	E	H1	H2	L	L1	L2	L3	L4	L5	L6	h	n3xs3	D1	n1xs1	D2	n2xs2	M1	M2	N1	N2	H3	L7	L8	H4	weight kg
50UHFM-I	1.1KW-4	290	290	330	107	242	190	975	150	500	117	215	119	185	25	4-M12×300	125	4-φ18	110	4-×φ14	140	170	120	150	350	1200	550	500	180
	0.75KW-4	290	290	330	107	242	190	950	150	500	117	215	119	185	25	4-M12×300	125	4-φ18	110	4-×φ14	140	170	120	150	350	1200	550	500	180
	1.5~2.2KW-2	290	290	330	107	242	190	1000	150	500	117	215	119	185	25	4-M12×300	125	4-φ18	110	4-×φ14	140	170	120	150	350	1200	550	500	180
	3KW-2	290	290	330	107	242	190	1035	150	530	125	215	119	185	25	4-M12×300	125	4-φ18	110	4-×φ14	140	170	120	150	350	1200	550	500	190
	4KW-2	290	290	330	107	242	190	1055	150	530	126	215	119	185	25	4-M12×300	125	4-φ18	110	4-×φ14	140	170	120	150	350	1200	550	500	200
	5.5-7.5KW-2	290	325	365	107	242	190	1110	150	563	117	215	119	185	25	4-M12×300	125	4-φ18	110	4-×φ14	140	170	120	150	350	1200	550	500	220
65UHFM-I	5.5-7.5KW-2	335	355	405	125	280	218	1345	190	730	180	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1500	600	550	320
	11-15KW-2	335	425	475	125	280	218	1450	190	830	180	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	350
	18.5KW-2	335	425	475	125	280	218	1510	190	830	180	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	365
65UHFM-I-H	1.1KW-4	335	335	385	140	280	230	1175	190	650	155	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	280
	2.2-3KW-4	335	335	385	140	280	230	1235	190	650	155	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	280
	5.5-7.5KW-2	335	335	385	140	280	230	1345	190	650	155	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	320
	11-15KW-2	335	425	475	140	280	230	1450	190	830	180	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	350
	18.5KW-2	335	425	475	140	280	230	1510	190	830	180	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	365
	22KW-2	335	425	475	140	280	230	1545	190	830	180	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	550	400
80UHFM-I	30kw-2	335	470	520	140	300	230	1600	190	830	200	250	150	235	35	4-M16×300	145	4-×φ18	125	4-×φ18	140	170	120	150	450	1600	700	700	460
	2.2-3KW-4	335	335	385	125	280	228	1230	190	650	155	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1500	600	550	300
	4KW-4	335	335	385	125	280	228	1250	190	650	155	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1500	600	550	300
	7.5KW-2	335	355	405	125	280	228	1340	190	730	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1500	600	550	320
	11-15KW-2	335	425	475	125	280	228	1450	190	830	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	350
	18.5KW-2	335	425	475	125	280	228	1510	190	830	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	360
80UHFM-I-H	22KW-2	335	425	475	125	280	228	1540	190	830	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	400
	2.2-3KW-4	335	335	385	140	280	230	1200	190	650	155	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	290
	4KW-4	335	335	385	140	280	230	1255	190	650	155	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	300
	7.5KW-2	335	355	405	140	280	230	1350	190	730	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	320
	11W-2	335	425	475	140	280	230	1460	190	830	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	365
	18.5KW-2	335	425	475	140	280	230	1500	190	830	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	365
80UHFM-I-H	22KW-2	335	425	475	140	280	230	1545	190	830	180	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	550	400
	30-37KW-2	335	470	520	140	300	230	1600	190	860	200	250	150	235	35	4-M16×300	160	4-×φ18	145	4-×φ18	140	170	120	150	450	1600	700	700	500

Model	Power (kw)	A	B	C	E	H1	H2	L	L1	L2	L3	L4	L5	L6	h	n3x3	D1	n1xS1	D2	n2xS2	M1	M2	N1	N2	H3	L7	L8	H4	weight kg
80UHFM-I-M	11KW-4	400	400	480	205	385	265	1600	200	850	200	370	195	245	20	4-M20×300	160	4-×φ18	145	4-×φ18	160	170	160	190	450	1800	900	800	500
100UHFM-I	3KW-4	335	335	385	130	280	225	1230	190	650	155	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	250
	4KW-4	335	335	385	130	280	225	1250	190	650	155	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	250
	5.5KW-4	335	355	405	130	280	225	1350	190	730	180	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	300
	7.5KW-4	335	355	405	130	280	225	1385	190	730	180	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	320
	15KW-2	335	425	475	130	280	225	1440	190	830	180	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	350
	18.5KW-2	335	425	475	130	280	225	1510	190	830	180	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	360
	22KW-2	335	425	475	130	280	225	1545	190	830	180	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	400
	30KW-2	335	470	520	130	300	225	1600	190	860	200	250	150	225	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	700	500
45KW-2	335	520	570	130	325	225	1660	190	860	265	250	150	225	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	800	700	600	
100UHFM-I-H	4KW-4	335	335	385	140	280	235	1255	190	650	155	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	250
	5.5KW-4	335	425	475	140	280	235	1325	190	830	180	250	150	225	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	550	260
	30-37KW-2	335	470	520	140	300	235	1600	190	860	200	250	150	225	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	700	700	520
	45KW-2	335	520	570	140	325	235	1660	190	860	265	250	150	235	35	4-M16×300	180	4-×φ18	160	4-×φ18	140	170	120	150	450	1600	800	700	600
55KW-2	390	630	720	140	420	235	1740	230	1000	150	305	150	225	35	4-M20×300	180	4-×φ18	160	4-×φ18	160	190	120	150	450	1800	900	800	650	
100UHFM-I-M1	15KW-4	400	400	480	200	385	270	1650	200	850	200	370	200	245	20	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1800	900	800	550
	18.5KW-4	400	400	480	200	385	270	1680	200	850	250	370	200	245	20	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1800	900	800	600
	22KW-4	400	400	480	200	385	270	1720	200	850	250	370	200	245	20	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1800	900	800	620
100UHFM-I-M	30KW-4	600	600	670	290	485	455	2000	200	960	270	455	300	320	20	4-M20×300	180	4-×φ18	160	4-×φ18	160	190	120	150	450	2200	1000	900	1170
	37KW-4	600	600	670	290	485	455	2040	200	960	340	455	300	320	20	4-M20×300	180	4-×φ18	160	4-×φ18	160	190	120	150	450	2200	1000	900	1250
	45KW-4	600	600	670	290	485	455	2070	200	960	340	455	300	320	20	4-M20×300	180	4-×φ18	160	4-×φ18	160	190	120	150	450	2200	1000	900	1300
	55KW-4	650	650	740	290	575	455	2120	200	1200	220	455	300	320	25	4-M20×300	180	4-×φ18	160	4-×φ18	160	190	120	150	450	2200	1000	900	1390
	75KW-4	650	650	740	290	575	455	2180	200	1200	300	455	300	320	25	4-M20×300	180	4-×φ18	160	4-×φ18	160	190	120	150	450	2200	1000	900	1500
125UHFM-I-H	37KW-2	520	520	590	155	385	260	1785	250	835	250	430	220	270	20	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2000	900	900	520
	45KW-2	555	555	625	155	385	260	1800	250	835	250	430	220	270	20	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2000	900	900	580
	55KW-2	555	555	625	155	410	260	1865	250	900	250	420	220	270	20	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2000	900	900	650
125UHFM-I-M	37KW-4	600	600	670	285	485	465	2040	200	960	340	450	295	320	22	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2200	1000	900	1260
	45KW-4	600	600	670	285	485	465	2065	200	960	340	450	295	320	22	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2200	1000	900	1300
	55KW-4	650	650	740	285	575	465	2135	200	1200	220	450	295	320	25	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2200	1000	900	1385
	75KW-4	650	650	740	285	575	465	2180	200	1200	300	450	295	320	25	4-M20×300	210	8-×φ18	180	8-×φ18	160	190	120	150	450	2200	1000	900	1550
125UHFM-I-M	22KW-4	400	400	480	195	385	275	1730	200	850	250	370	230	270	20	4-M20×300	210	4-×φ18	180	4-×φ18	160	170	160	190	450	1800	900	800	650
150UHFM-I	15KW-4 11KW-6	600	600	670	218	485	495	1870	200	950	250	400	225	320	22	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1050
	18.5KW-4,15KW-6	600	600	670	218	485	495	1900	200	960	250	400	225	320	22	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1090
	30KW-4	600	600	670	218	485	495	1970	200	960	270	400	225	320	22	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1160
	37KW-4	600	600	670	218	485	495	2010	200	960	340	400	225	320	22	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1210
	45KW-4	600	600	670	218	485	495	2040	200	960	340	400	225	320	22	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1240
150UHFM-I-M	75KW-4	650	650	740	276	575	508	2190	200	1200	300	420	290	320	25	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1550
	90KW-4	650	650	740	276	575	508	2260	200	1200	300	420	290	320	25	4-M20×300	240	8-×φ22	210	8-×φ22	160	190	120	150	450	2200	1000	900	1680
	110KW-4	650	650	740	276	575	508	2435	300	1200	350	525	290	320	2														

9.2 Outline drawing and installation dimensions of UHFM-II type two-stage pump

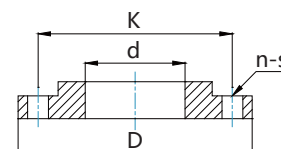


Model	Power (kw)	A	B	C	E	F	H1	H2	L	L1	L2	L3	L4	L5	L6	h	n3xs3	D1	n1xs1	D2	n2xs2	M1	M2	N1	N2	H3	L7	L8	H4	weight kg
65UHFM-II	11-15KW-2	335	425	475	125	870	280	350	1760	190	830	180	313.5	213.5	235	35	4-M20×300	145	4-×φ18	125	4-×φ18	160	170	160	190	450	1600	700	550	370
	18.5KW-2	335	425	475	125	870	280	350	1805	190	830	180	313.5	213.5	235	35	4-M20×300	145	4-×φ18	125	4-×φ18	160	170	160	190	450	1600	700	550	380
	22KW-2	335	425	475	125	870	280	350	1845	190	830	180	313.5	213.5	235	35	4-M20×300	145	4-×φ18	125	4-×φ18	160	170	160	190	450	1600	700	550	420
	30-37KW-2	335	470	520	125	870	300	350	1900	190	860	200	313.5	213.5	235	35	4-M20×300	145	4-×φ18	125	4-×φ18	160	170	160	190	450	1600	700	550	480
80UHFM-II	15KW-2	335	425	475	125	725	280	228	1860	190	830	180	313.5	213.5	235	35	4-M20×300	160	4-×φ18	145	4-×φ18	160	170	160	190	450	1600	700	550	370
	18.5KW-2	335	425	475	125	725	280	228	1805	190	830	180	313.5	213.5	235	35	4-M20×300	160	4-×φ18	145	4-×φ18	160	170	160	190	450	1600	700	550	480
	22KW-2	335	425	475	125	725	280	228	1820	190	830	180	313.5	213.5	235	35	4-M20×300	160	4-×φ18	145	4-×φ18	160	170	160	190	450	1600	700	550	500
	30-37KW-2	335	470	520	125	745	300	228	1900	190	860	200	313.5	213.5	235	35	4-M20×300	160	4-×φ18	145	4-×φ18	160	170	160	190	450	1600	700	700	600
100UHFM-II	18.5KW-2	335	425	475	118	730	280	228	1890	190	830	180	372	272	235	35	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1600	700	550	520
	22KW-2	335	425	475	118	730	280	228	1930	190	830	180	372	272	235	35	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1600	700	550	580
	30-37KW-2	335	470	520	118	750	300	228	1985	190	860	200	372	272	235	35	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1600	700	700	650
	45KW-2	335	520	570	118	775	325	228	2025	190	860	265	372	272	235	35	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1800	800	700	700
	55KW-2	390	630	720	118	805	424	228	2135	230	1000	155	427	272	235	35	4-M20×300	180	4-×φ18	160	4-×φ18	160	170	160	190	450	1800	1000	800	750

Note: Our company reserves the right to make technical improvements and dimensional corrections without prior notice to users. Please refer to the drawings provided when ordering for specific installation dimensions.

9.3 Inlet and outlet flange dimensions Referenced standard: GB/T 9116-2010 PN 1.0MPa

d	25	32	40	50	65	80	100	125	150	200	250
D	115	140	150	165	185	200	220	250	285	340	395
K	85	100	110	125	145	160	180	210	240	295	350
n-s	4-Φ14	4-Φ18				8-Φ18			8-Φ22	12-Φ22	

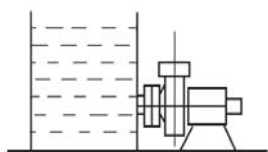


X. Installation Precautions and Installation Diagram

10.1 Installation Precautions

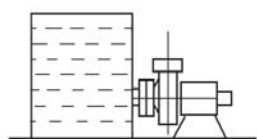
- 1 Valves and rubber anti-vibration joints (pipeline compensators) should be installed sequentially at the pump's inlet and outlet for easy maintenance.
- 2 In the pump installation sequence, connect the inlet and outlet pipe bolts first, then tighten the fixing bolts to prevent tensile stress on the pump during pipe connection, which could damage the pump.
- 3 For pumps with long (high) outlet pipe distances and UHFM-II type pumps, a check valve should be installed at the outlet to prevent high-pressure water hammer at the outlet from damaging the pump when the pump is stopped.
- 4 Pump inlet and outlet pipe configuration: To reduce pipe flow resistance and improve pipeline conveying efficiency, the pump piping should be one level larger than the pump inlet and outlet.
- 5 The pump's inlet and outlet pipes should be equipped with a gravity support system; the pump cannot bear the weight of the pipeline.

10.2 Slot Installation Diagram and Precautions



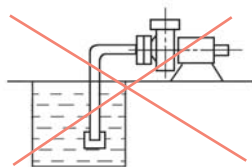
A. Positive Pressure State in High-Level Tank

Features: The pump is installed at the bottom of the storage tank, where the medium is under positive pressure. When the valve at the pump inlet is opened, the liquid in the storage tank can flow by gravity into the pump chamber. This is the ideal installation method for the UHFM series pumps.



B. High-Level Tank Negative Pressure State

Features: The pump is installed at the bottom of the sealed tank, which is under negative pressure. When selecting a pump for this condition, the exact negative pressure data in the tank must be determined before contacting our company for a final selection. This installation method is generally not recommended.



C. Low-level tank with bottom valve in position

Features: The pump is installed above the storage tank, and a foot valve is installed at the bottom of the inlet pipe. UHFM series pumps are not suitable for this application; please contact our company for assistance.