

Please clearly read the manual before using the pumps.



1. APPLICATION

Mainly applicable for conveying of industrial liquid, such as mineral water, soft water, pure water, clean oil and circulation and boosting for other weak chemical-industrial medium.

- Cold water chiller cooling cycle
- Water treatment processes
- Industrial cleaner and dishwasher
- Water boosting on process
- Heating and cooling for industrial process
- Air-conditioning system
- Air freshening, heater device (soft water)
- Water supply and boosting (drinking water, light chlorine water)
- Fertilization/metering system

2. WORKING CONDITIONS

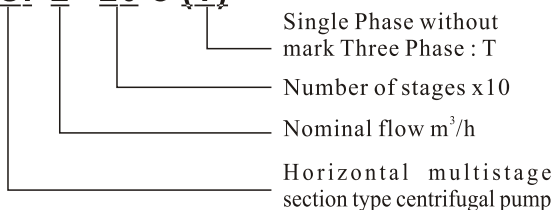
- Liquid temperature:
 - low temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$;
 - standard model: $+15^{\circ}\text{C} \sim +70^{\circ}\text{C}$;
 - high temperature: $+70^{\circ}\text{C} \sim +104^{\circ}\text{C}$;
- Max. environmental temperature: 50°C
- Max. operating pressure: 10 bar
- Max. suction pressure is limited by max. Operating pressure
- Max. total head: 56m
- Max. Inlet Pressure: $4.4 \times 10^5 \text{Pa}$
- Min. Inlet Pressure: $1.0 \times 10^5 \text{Pa}$

3. MOTOR

- 2-pole induction motor;
- three-phase: 240/415V/50Hz
- Single-phase: 220~240V/50Hz,
- Single-phase with input thermal protector
- Insulation class: F
- Protection: IP55
- Continuous duty

4. CONNOTATION OF THE TYPE

HSI 2 - 20 C (T)



5. INSTALLATION

Notice: ⚠

- 5.1. Do not install the pump in the sunbaked or wet place.
- 5.2. Install the pump to near the water source as short as possible to have a shortest suction pipe and prevent from reducing the suction.
- 5.3. Position the pump using the brackets.
- 5.4. Install the pump in dry and ventilated place to ensure safe operation.
- 5.5. Try to reduce the bend in pipe circuit as you can, the gradient should less than 2%.
- 5.6. The connection of pipe circuit should be water-tight, the pipes should be supported separately.
- 5.7. It's appreciated to install a vacuum meter and pressure gauge in the suction and discharge to observe the situation of operation.

6. ELECTRIC CONNECTION

Danger: ⚡


- 6.1. Ensure the voltage (V), frequency (Hz), phase (PH) is conform with the ones marked on the label. When the Voltage $\pm 10\%$, it will make the inset thermal protector operate and the motor stop operating.
- 6.2. Pump should be reliably earthed and with leakage protection switch.
- 6.3. The cord should meet the requirements of current.
- 6.4. Make sure the correct electric connection according to the wiring diagram.

7. START, OPERATION AND STOP THE PUMP

Warning: ⚠

- 7.1. Dry operation is prohibited to avoid burning of mechanical seal.
- 7.2. It could rotate freely from the fan cover by screw driver.
- 7.3. Turn on the pump, it should be clockwise view from the fan cover.
- 7.4. Fill water in the pump from the discharge valve.
- 7.5. Turn on the pump, open the discharge valve to set the flow and discharge pressure to the required data.
- 7.6. Close the discharge valve before stopping the pump and power.

8. MAINTENANCE

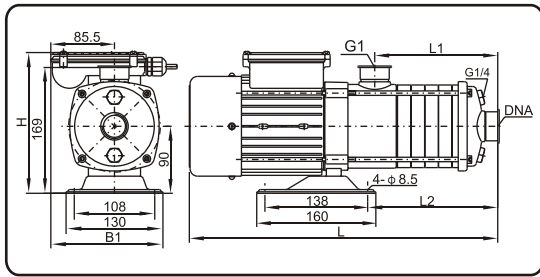
Notice: 

- 8.1. It is prohibited to start the pump frequently, it should disconnect the switch when the power supply is suddenly interrupt.
- 8.2. It is not allowed to use the suction valve to adjust flow.
- 8.3. When the water is insufficient, it should stop the pump.
- 8.4. If there is some abnormal noise, please stop the pump and check.

8.5. If the pump is not use for long time or stop in low temperature, water should be drained to avoid damaging the pump body as freezing.

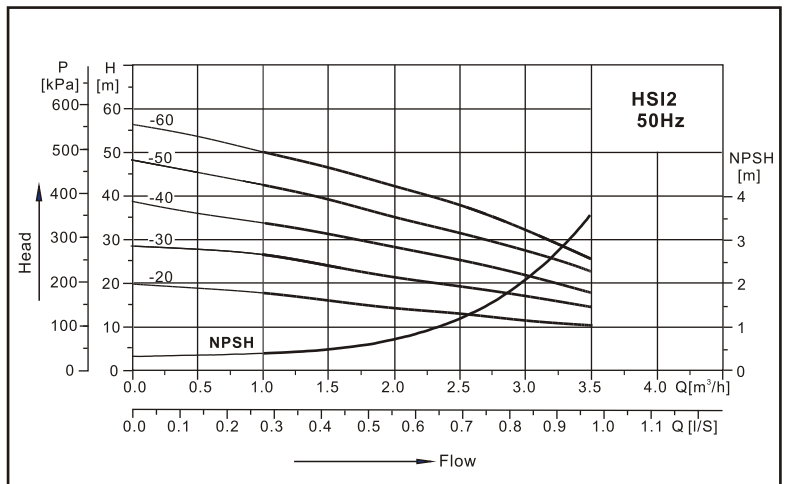
8.6 For cord replacement, it must be performed as follows:
Replacement Procedure: Disconnect the power supply, open the terminal box cover, and disconnect the existing leads from the terminals. Loosen the cable gland, remove the old cord, and insert a new Type Y attachment cord that meets the motor's current requirements. Ensure the wire colors match the internal wiring diagram , tighten the cable gland to create a water-tight seal, and verify the pump is reliably earthed before closing the terminal box.

9. CONTOUR DIMENSION



Model	Power(P ₂) kW	Dimensions(mm)					H		DNA
		B1	L	L1	L2	Single phase	Three phase		
HSI2-20C(T)	0.37	151	342	92	103	189	192	G1	
HSI2-30C(T)	0.37	151	360	110	121				
HSI2-40C(T)	0.55	151	378	128	139				
HSI2-50C(T)	0.55	151	396	146	157				
HSI2-60C(T)	0.75	151	414	164	175				

10. PERFORMANCE CURVE



11. TROUBLE SHOOTING

PROBLEMS	POSSIBLE REASONS	SOLUTION
The pump does not run	The voltage is not correct. Fuse or thermal protector makes the pump stop running.	Check the voltage on the name plate. Check the fuse or thermal protector.
The pump does not pump properly	Too much high head Too low water level Bottom valve not in water No water Leakage of inlet pipe	Check the suitable head. Check the suction head. Have the valve in the water. Fill the pump with water. Check the suction conditions.
The pump runs but no water	The foot-valve is blocked. The impeller is corrosive. The bottom valve is not in the water. No priming water. Leakage in suction pipe.	Check the suction height and re-install the pump. Replace the impeller. Fill the suction section with water. Fill the pump with water. Check the suction conditions.
The flow reduces obviously	The foot-valve is blocked. The head is too high. The water level is too low. The impeller is serious damage.	Clean or replace the foot-valve. Check the installation height . Check the suction head and re-install the pump. Replace the impeller.
The motor is over heating	Low voltage or insufficient ventilation in pump room	Contact the electric power company to supply stable voltage. Have good ventilation.
The pump stops soon after starting	Low voltage or insufficient ventilation in pump room	Contact the electric power company to supply stable voltage. Have good ventilation.



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Type Y attachment - Damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person to avoid hazard.

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- Air freshening, heater device (soft water)
- Water supply and boosting (drinking water, light chlorine water)
- Fertilization/metering system

2. WORKING CONDITIONS

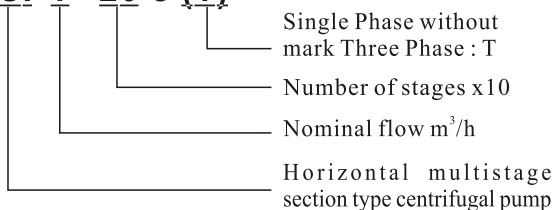
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3. MOTOR

- 2-pole induction motor;
- three-phase: 240/415V/50Hz
- Single-phase: 220~240V/50Hz,
- Single-phase with input thermal protector
- Insulation class: F
- Protection: IP55
- Continuous duty

4. CONNOTATION OF THE TYPE

HSI 4 - 20 C (T)



5. INSTALLATION

Notice:

- 5.1. Do not install the pump in the sunbaked or wet place.
- 5.2. Install the pump to near the water source as short as possible to have a shortest suction pipe and prevent from reducing the suction.
- 5.3. Position the pump using the brackets.
- 5.4. Install the pump in dry and ventilated place to ensure safe operation.
- 5.5. Try to reduce the bend in pipe circuit as you can, the gradient should less than 2%.
- 5.6. The connection of pipe circuit should be water-tight, the pipes should be supported separately.
- 5.7. It's appreciated to install a vacuum meter and pressure gauge in the suction and discharge to observe the situation of operation.

6. ELECTRIC CONNECTION

Danger:


- 6.1. Ensure the voltage (V), frequency (Hz), phase (PH) is conform with the ones marked on the label. When the Voltage $\pm 10\%$, it will make the inset thermal protector operate and the motor stop operating.
- 6.2. Pump should be reliably earthed and with leakage protection switch.
- 6.3. The cord should meet the requirements of current.
- 6.4. Make sure the correct electric connection according to the wiring diagram.

7. START, OPERATION AND STOP THE PUMP

Warning:

- 7.1. Dry operation is prohibited to avoid burning of mechanical seal.
- 7.2. It could rotate freely from the fan cover by screw driver.
- 7.3. Turn on the pump, it should be clockwise view from the fan cover.
- 7.4. Fill water in the pump from the discharge valve.
- 7.5. Turn on the pump, open the discharge valve to set the flow and discharge pressure to the required data.
- 7.6. Close the discharge valve before stopping the pump and power.

8. MAINTENANCE

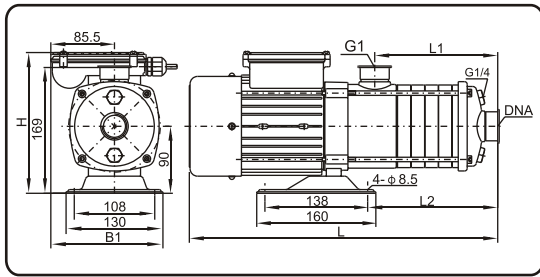
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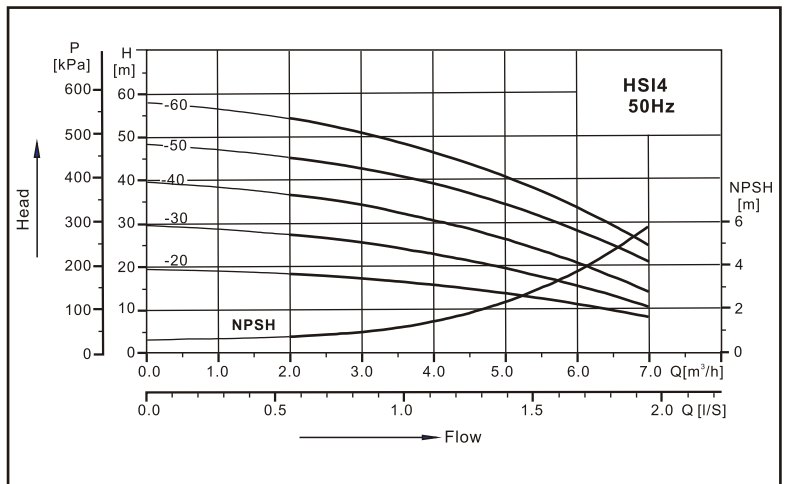
8.6 For cord replacement, it must be performed as follows:
Replacement Procedure: Disconnect the power supply, open the terminal box cover, and disconnect the existing leads from the terminals. Loosen the cable gland, remove the old cord, and insert a new Type Y attachment cord that meets the motor's current requirements. Ensure the wire colors match the internal wiring diagram , tighten the cable gland to create a water-tight seal, and verify the pump is reliably earthed before closing the terminal box.

9. CONTOUR DIMENSION



Model	Power(P ₂) kW	Dimensions(mm)					H		DNA
		B1	L	L1	L2	Single phase	Three phase		
HSI4-20C(T)	0.55	151	342	92	103	189	192	G1 $\frac{1}{4}$	
HSI4-30C(T)	0.75	151	360	110	121				
HSI4-40C(T)	0.75	151	378	128	139				
HSI4-50C(T)	1.0	151	396	146	157	215			
HSI4-60C(T)	1.1	151	414	164	175				

10. PERFORMANCE CURVE



11. TROUBLE SHOOTING

PROBLEMS	POSSIBLE REASONS	SOLUTION
The pump does not run	The voltage is not correct. Fuse or thermal protector makes the pump stop running.	Check the voltage on the name plate. Check the fuse or thermal protector.
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The flow reduces obviously	The foot-valve is blocked. The head is too high. The water level is too low. The impeller is serious damage.	Clean or replace the foot-valve. Check the installation height . Check the suction head and re-install the pump. Replace the impeller.
The motor is over heating	Low voltage or insufficient ventilation in pump room	Contact the electric power company to supply stable voltage. Have good ventilation.
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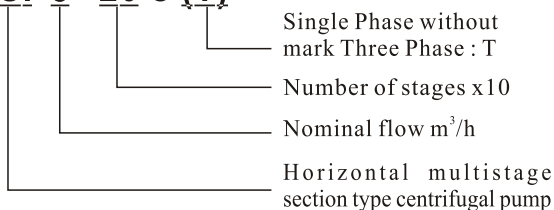
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HSI 8 - 20 C (T)



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8. MAINTENANCE

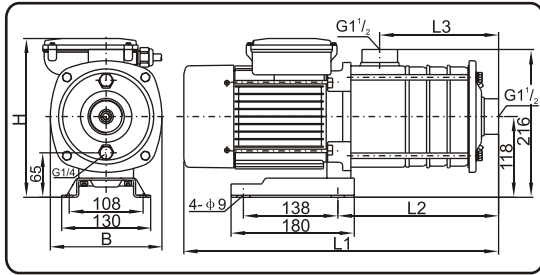
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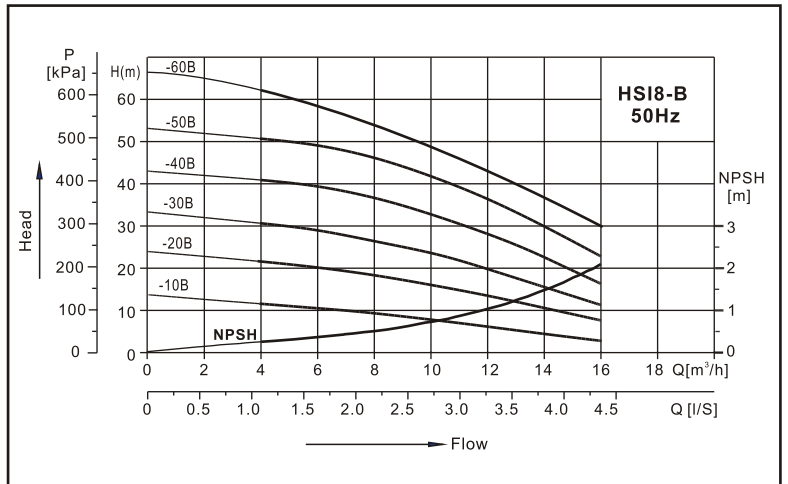
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9. CONTOUR DIMENSION



Model	Power (P ₂) kW	Dimensions(mm)									
		Single Phase					Three Phase				
		L1	L2	L3	H	B	L1	L2	L3	H	B
HSI8-10BC(T)	0.55	340	144	83	227	163	340	144	83	220	163
HSI8-20BC(T)	0.75	370	175	113	227	163	370	175	113	220	163
HSI8-30BC(T)	1.1	432	205	144	235	163	432	205	144	225	163
HSI8-40BC(T)	1.5	463	235	174	235	16	463	235	174	225	163
HSI8-50BC(T)	2.2	534	265	204	262	168	493	265	204	225	163
HSI8-60BCT	3.0	-	-	-	-	-	584	296	234	230	168

10. PERFORMANCE CURVE



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