

Features

- Submersible transfer pump inside parts are made of SS304 material. It doesn't pollute the water. The multistage impeller design, high head and big range.
- Vertical design and space saver. It is suitable to install in cistern in buildings.
- Suction is at middle part of pump. It can help to lower down effective water level in cisterns. It can reduce dead water in cistern to the min. level, so water quality can maintain fresh at all time.
- The motor is water cooled type which has better cooling effect. It helps to increase motor efficiency.

Applications

- Install in cistern of high rise building, apartment or factory, and then transfer water to overhead storage tank.
- Liquid temp.: 2°C~35°C
- Transfer Liquids: clean water.
- Motor starting method:
 1. DOL: 1~10HP
 2. Y-Δ: 15~50HP
- Insulation class: B
- IP code: IP68.



Basement(cistern)

Model Code

80-STU-5.5 H

High head(Customize model)

Power(KW)

Model name

Discharge diameter(MM)



SUS304 pump casing/Impeller

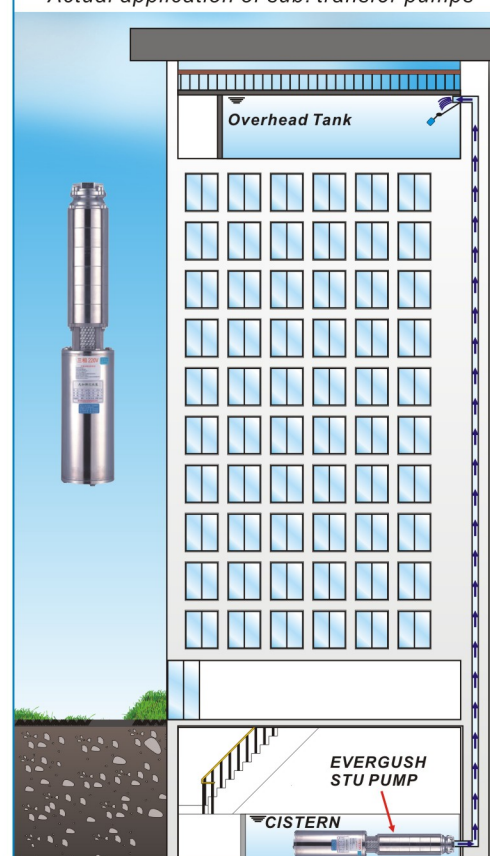
Specification Table

(2P,3450r.p.m)

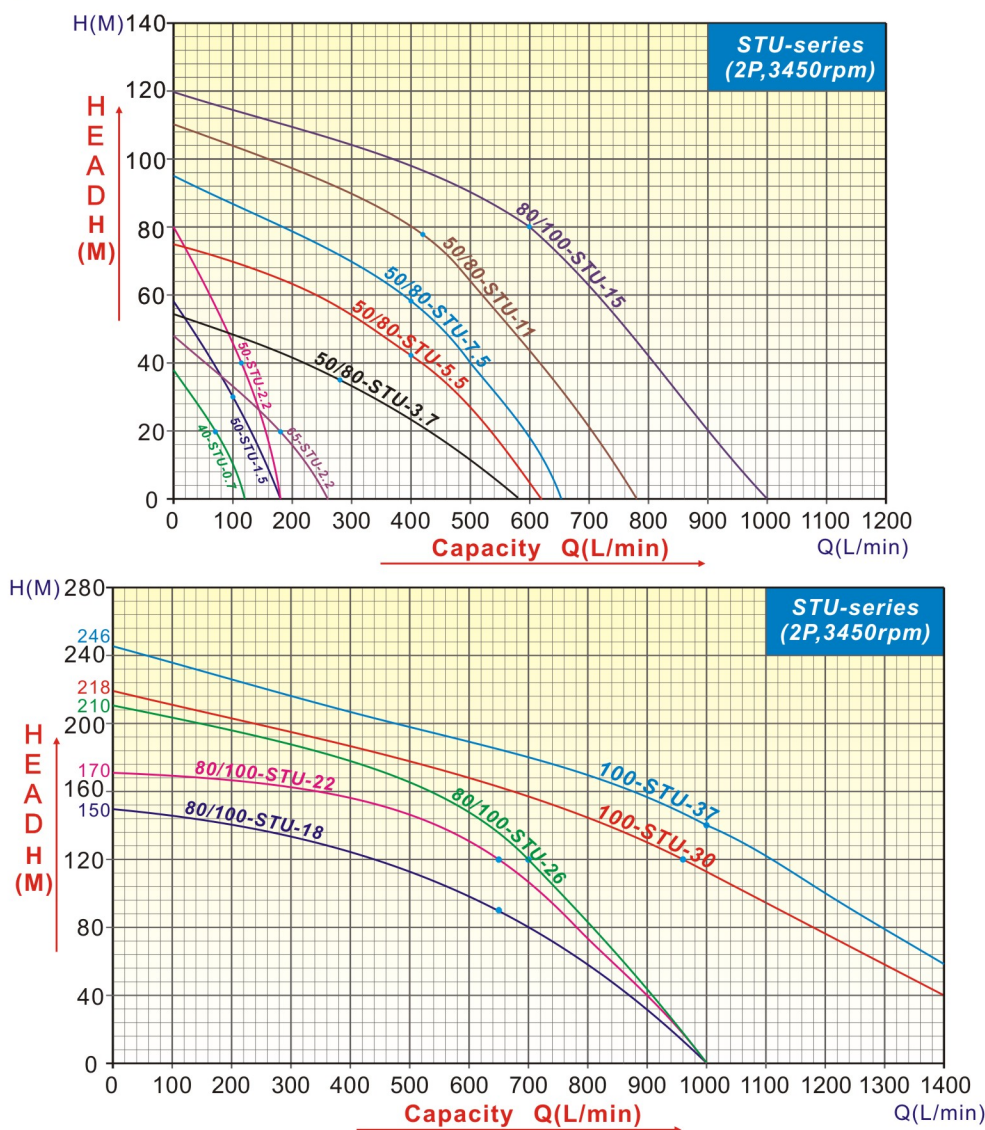
| Model | Power | | Outlet | Phase | Rated Head | Rated flow rate | Max. Head | Max. flow rate |
|-----------------------------------|-------|-----|--------|-------|------------|-----------------|-----------|----------------|
| | KW | HP | Inch | | | | | |
| 40-STU-0.7 | 0.75 | 1 | 1.5" | 1ø,3ø | 20 | 70 | 38 | 120 |
| 50-STU-1.5 | 1.5 | 2 | 2" | 1ø,3ø | 30 | 100 | 58 | 180 |
| 50-STU-2.2 | 2.2 | 3 | 2" | 3ø | 40 | 115 | 80 | 180 |
| 65-STU-2.2 | | | 2.5" | | 20 | 180 | 48 | 260 |
| 50-STU-3.7 | 3.7 | 5 | 2" | 3ø | 35 | 280 | 54 | 580 |
| 80-STU-3.7 | | | 3" | | | | | |
| 50-STU-5.5 | 5.5 | 7.5 | 2" | 3ø | 42 | 400 | 75 | 620 |
| 80-STU-5.5 | | | 3" | | | | | |
| 50-STU-7.5 | 7.5 | 10 | 2" | 3ø | 58 | 400 | 95 | 650 |
| 80-STU-7.5 | | | 3" | | | | | |
| 50-STU-11 | 11 | 15 | 2" | 3ø | 78 | 420 | 110 | 780 |
| 80-STU-11 | | | 3" | | | | | |
| 80-STU-15 | 15 | 20 | 3" | 3ø | 80 | 600 | 120 | 1000 |
| 100-STU-15 | | | 4" | | | | | |
| 80-STU-18 | 18.5 | 25 | 3" | 3ø | 90 | 650 | 150 | 1000 |
| 100-STU-18 | | | 4" | | | | | |
| 80-STU-22 | 22 | 30 | 3" | 3ø | 120 | 650 | 170 | 1000 |
| 100-STU-22 | | | 4" | | | | | |
| 80-STU-26 | 26 | 35 | 3" | 3ø | 120 | 700 | 210 | 1000 |
| 100-STU-26 | | | 4" | | | | | |
| 100-STU-30 | 30 | 40 | 4" | 3ø | 120 | 960 | 218 | 1500 |
| 100-STU-37 | 37 | 50 | 4" | 3ø | 140 | 1000 | 246 | 1500 |
| Special customized specifications | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

● We can customize special spec. upon customer requests

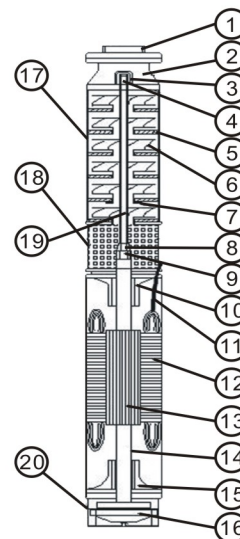
Actual application of sub. transfer pumps



Performance Curve



Sectional View



| NO. | Name | Material | Special material |
|-----|---------------------|-------------|------------------|
| 1 | Outlet | SUS304 | |
| 2 | Copper alloy frame | SUS304 | |
| 3 | Nut | SUS304 | |
| 4 | Shaft bush | SUS304 | |
| 5 | Guide ring | NBR | |
| 6 | Impeller | SUS304 | |
| 7 | Floating sheet | NBR | |
| 8 | Connecting base | SUS304 | |
| 9 | Connector | SUS304 | |
| 10 | Upper bearing base | SUS304 | |
| 11 | Cable | VCT | |
| 12 | Stator | Steel sheet | |
| 13 | Rotor | Steel sheet | |
| 14 | Motor shaft | SUS410 | |
| 15 | Lower bearing base | SUS304 | |
| 16 | Thrust bearing base | SUS304 | |
| 17 | Guide vane casing | SUS304 | |
| 18 | Filter | SUS304 | |
| 19 | Pump shaft | SUS410 | |
| 20 | Thrust baseplate | SUS304 | |

● We can customize special material upon customer requests.

Dimension



| Model | Power | | Outlet | Phase | Dimension (MM) | | | | | | | | Weight |
|----------------------------------|-------|-----|--------|--------|----------------|-----|-----|----|-----|-----|-----|-----|--------|
| | KW | HP | | | A | B | C | D | E | ØM | ØP | KG | |
| 40-STU-0.7 | 0.75 | 1 | 1.5" | 1ø, 3ø | 585 | 295 | 290 | 45 | 70 | 125 | 90 | 14 | |
| 50-STU-1.5 | 1.5 | 2 | 2" | 1ø, 3ø | 625 | 245 | 380 | 45 | 70 | 125 | 90 | 16 | |
| 50-STU-2.2 | 2.2 | 3 | 2" | 3ø | 730 | 245 | 485 | 45 | 70 | 125 | 90 | 17 | |
| 65-STU-2.2 | | | 2.5" | | 750 | 245 | 505 | 45 | 70 | 125 | 90 | 17 | |
| 50-STU-3.7 | 3.7 | 5 | 2" | 3ø | 613 | 310 | 303 | 70 | 134 | 164 | 127 | 35 | |
| 80-STU-3.7 | | | 3" | | | | | | | | | | |
| 50-STU-5.5 | 5.5 | 7.5 | 2" | 3ø | 690 | 338 | 352 | 70 | 134 | 164 | 127 | 40 | |
| 80-STU-5.5 | | | 3" | | | | | | | | | | |
| 50-STU-7.5 | 7.5 | 10 | 2" | 3ø | 757 | 353 | 404 | 70 | 134 | 164 | 127 | 45 | |
| 80-STU-7.5 | | | 3" | | | | | | | | | | |
| 50-STU-11 | 11 | 15 | 2" | 3ø | 874 | 368 | 506 | 70 | 134 | 164 | 127 | 55 | |
| 80-STU-11 | | | 3" | | | | | | | | | | |
| 80-STU-15 | 15 | 20 | 3" | 3ø | 1123 | 583 | 540 | 95 | 134 | 164 | 127 | 75 | |
| 100-STU-15 | | | 4" | | | | | | | | | | |
| 80-STU-18 | 18.5 | 25 | 3" | 3ø | 1230 | 635 | 595 | 95 | 134 | 164 | 127 | 86 | |
| 100-STU-18 | | | 4" | | | | | | | | | | |
| 80-STU-22 | 22 | 30 | 3" | 3ø | 1400 | 690 | 710 | 95 | 134 | 164 | 127 | 90 | |
| 100-STU-22 | | | 4" | | | | | | | | | | |
| 80-STU-26 | 26 | 35 | 3" | 3ø | 1528 | 760 | 768 | 95 | 134 | 164 | 127 | 101 | |
| 100-STU-26 | | | 4" | | | | | | | | | | |
| 100-STU-30 | 30 | 40 | 4" | 3ø | 1466 | 811 | 655 | 95 | 172 | 164 | 160 | 190 | |
| 100-STU-37 | 37 | 50 | 4" | 3ø | 1572 | 813 | 759 | 95 | 172 | 202 | 160 | 205 | |
| Special customize specifications | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

● Troubleshooting

| Possible causes | Solutions |
|---|---|
| 3 phase failure: Y connection-burn 2 phase coil Δconnection-burn 1 phase coil | Check power source to see if there is phase failure |
| | Check cable wires if one of wires is damaged |
| | Check control panel components & protector if they are damaged |
| 3 phase ampere difference is too big, and two of 3 wires amperes are normal | Check magnetic switch to see if it is damaged |
| | Check ground & inside deep well to see if cable is damaged causing poor insulation |
| Flow rate reduces, can't suck water, ampere is too small | Impeller, pump bearings, motor bearings, thrust bearings worn out |
| Motor rotation direction is wrong, flow rate decreases or can't suck water | Switch any two of three wires connection, and the pump will be normal |
| Voltage or frequency is too low causing motor speed decreases. The H and Q decrease | Check voltage or frequency. If necessary contact original manufacturer for solution. |
| Flow rate is unstable | Increase the length of discharge pipeline, so the pump can lower down in order to submerge into deeper depth. If it still doesn't improve, you can close the gate valve with smaller flow rate. Therefore, suction flow rate and discharge flow rate can be balanced. |
| The cable or motor insulation is damaged | Turn off the power, and use a multi-meter to measure motor & cable. If the motor is fault, you need to send it back to factory for repair. |
| The pump is not running and ampere is high | If the ampere is higher than max. ampere, please send the pump back to factory for repair. |
| Starter switch or relay is not working. The fuse or load protection is too small | Check the cause of faults. Do proper adjustment and replacement. |
| No power source or voltage is wrong | Use voltage-meter to check wires to see its voltage and rated voltage difference. There should be +5% & -5% safety range. |