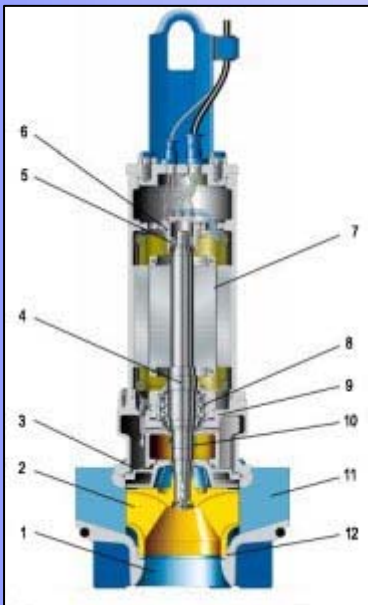


The SILI COX(W) series is a submersible centrifugal pump, with non-clogging impeller, and portable design.

- IP68 full submersible motor.
- Non-clogging impeller, suitable for sewage.
- Water leakage detection insides pump
- Over heating detection insides motor
- Double mechanical seal design
- Cooling jacket design(optional)
- Portable design
- Easy installation/service.

### Function

The fluid directly(without suction valve) enters the pump axially via the inlet of the pump casing (1) and is accelerated outward in a radial flow by the rotating impeller (2). The required energy is transmitted from the electric motor (7) to the impeller (2) via the shaft (4). In the pump casing (11) the kinetic energy of the fluid is converted into pressure energy. The rotational movement diverts the fluid flow in axial direction. The casing wear ring (12) prevents any fluid from flowing back from the casing into the inlet of the pump casing. At the rear side of the impeller, the shaft enters the casing via the discharge cover (3). The shaft passage through the discharge cover is sealed towards the fluid by a shaft seal (10). The shaft runs in rolling element bearings (5 and 8), which are supported by a bearing housing (9) and a bearing bracket (6).



### Design Features

--Class F Insulation level, max working temp 155 C degree, the effective seal makes its IP 68 high protective level. An over heating device for the motor is



optional.

--With the optimized design, the big channel impeller (no-clogging type) will not be blocked up when to transport sewage/bilge with big impurity or long fiber.

--A oil chamber is located between the motor and the pump, oil can lubricate and cool the mechanical seal and prevent water from penetrating into the motor. A water-leakage probe(above 5kw) is mounted inside the oil chamber to check water leakage and it will give a warning signal, when the mechanical seal on the pump side leaks.

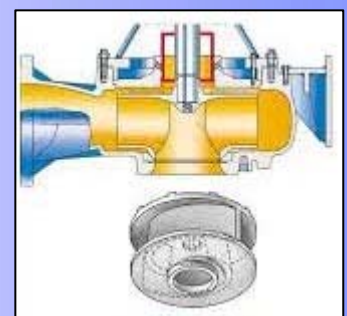
--Double separate mechanical seal work individually to separate the motor from the pump seal, to provide the motor with a dual protection.

--Quality bearing with a reasonable configuration, can extend the duration of the pump. At the top and the bottom of the motor, there is both a rolling bearing, while in the bottom of the motor, there is another thrust bearing. (double bearings at the bottom of the motor side).

--A special cooling water jacket is optional if request.

--Standard material for bronze for the pump casing, impeller and cover, stainless steel for pump shaft. An optional stainless steel material for pump casing, cover and impeller.

--Portable design, with a standard 10m water-proof cable. The fire hose and quick connection port can be provided as request

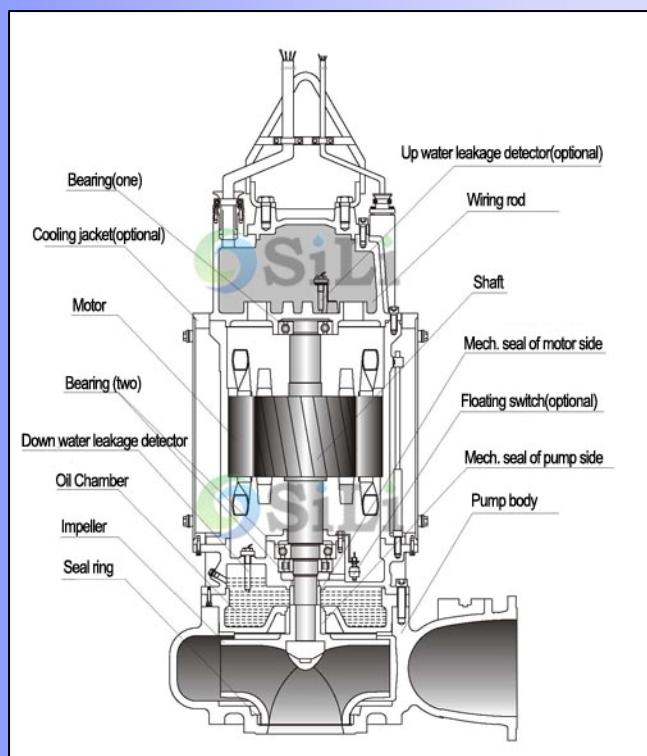


### Condition of use

Max liquid temp 60 C degree, Max S.G. 1200kg/m<sup>3</sup>.

The maximum diameter of the solid grain going through the pump has not to be larger than 50% of that of the pump outlet flange.

During running, the pump must not be lower than the lowest liquid level (for cooling motor purpose)



### Capacity range:

10m<sup>3</sup>/h to 500m<sup>3</sup>/h in 50Hz

### Head range:

5m to 40m in 50HZ

### Power:

1kw to 45kw, 380V/400V/415V, 50Hz

Small power type can be in 220V, single phase

### Speed (motor poles)

970rpm (6 poles), 1450rpm (4 poles)

and 2900rpm (2 poles) in 50Hz

### Flange size (for discharge):

DN50mm (2 inch) to DN500mm (20 inches)

### Temperature range:

Max to 60 C degree

### Liquid:

Sea water, fresh water, bilge water, oily water, sewage, Max S.G. 1200kg/m<sup>3</sup>.

### Applications

This pump is mainly used for sewage bilge, fire fighting, deck-wash and emergency flood water for marine and off shore purpose.

### Material

Part name	Material	
	Sea water	Fresh water
Cover	Bronze	Stainless steel
Body	Bronze	Stainless steel
Impeller	Bronze	Stainless steel
Seal ring	Bronze	Stainless steel
Impeller nut	Bronze	Stainless steel
Shaft seal	Mech. seal (two)	Mech. sea (two)
Shaft	Stainless steel	Stainless steel

Bronze: ZcuZn16Si4

Stainless steel: 1Cr18Ni9Ti (SS304), optional in SS316 and SS316L

### SILI PUMP,

**Your reliable one-stop supplier of marine pumps.**

Shanghai SILI PUMP Industry Co., Ltd.

Add: No.128 Jinyuan Road, 201518, Shanghai, China (Jinyuan Industry Area)

Tel: 0086-21-39109967, fax: 0086-21-39109967

Web: www.silipump.com e-mail: sales@silipump.com

(The company reserves the right to make alteration without notice)