

## **Submersible Sewage & Wastewater Pumps with unique grinding / shredding arrangement.**

### **“W-1100 SC” & “W-1500 SC”**

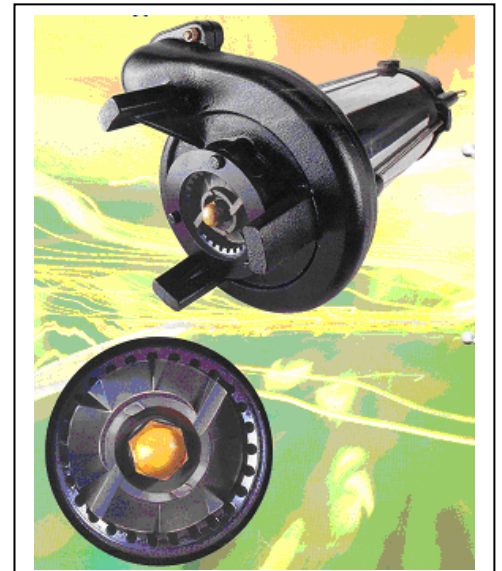
#### **Applications:**

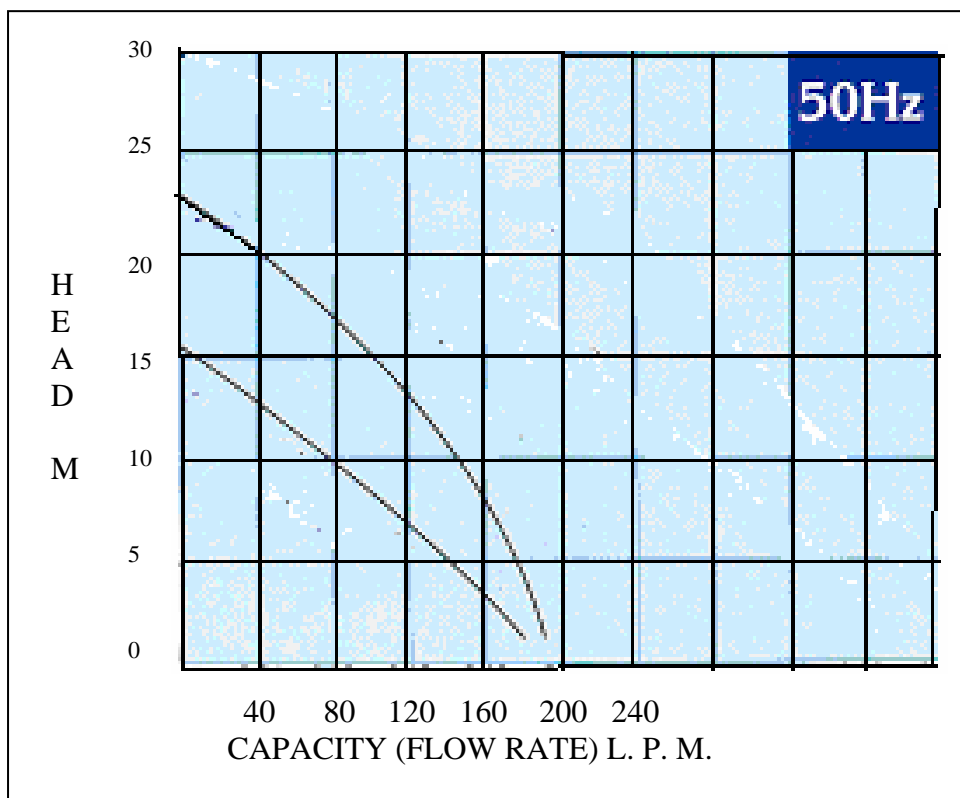
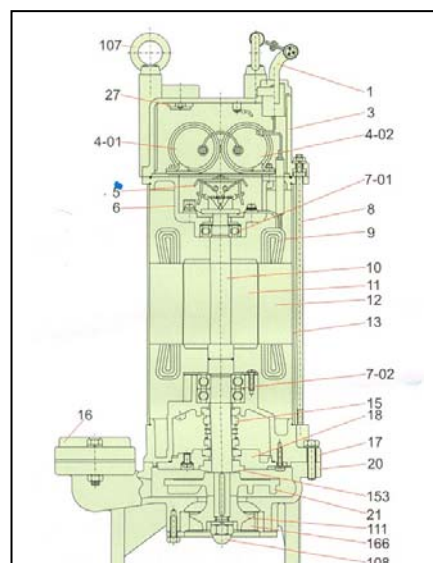
Suitable for pumping Domestic Sewage and Waste water, human waste & toilet paper only.

Not suitable when liquid contains hard solids like sand, stones, gravel, wood and / or stringy material like clothes, plastic bags etc.

#### **Features:**

- Advanced integrated grinding mechanism designed to shred / grind soft sewage particles
- Grinding mechanism of fixed blade & rotating cutter is made of hard abrasion resistant Chromium-Molybdenum alloy steel.
- The fixed blade has 27 cutting edges. When the specially designed rotating cutter spins at 2 pole speed with a high torque motor, there are approx 80,000 shredding actions in one minute which achieve the optimum shredding performance.
- The triplex sealing arrangement – Double Mechanical seal plus an oil seal protects the motor from any in-grace of sewage or waste water in motor.
- Unique Epoxy Cable Sealing Base ensures any water vapour from entering the motor even if the cable breaks.
- Double Ball Bearing arrangement at the bottom fully supports the axial load / thrust.
- Pump comes with built in float switch for automatic operation based on liquid level.
- Pump comes with standard base mounting. Auto-coupling option available on request.



**PERFORMANCE CHART****PARTS LIST**

NO.	NAME OF PARTS	Material of parts
1	Cable	V.C.T.
3	Motor head cover	Cast iron
4-01	Running capacitor	
4-02	Starting capacitor	
5	Centrifugal switch	
6	Upper bracket	Cast iron
7-01	Bearing	
7-02	Bearing	SUS 304
8	Bolt	
9	Coil	SUS 304
10	Shaft	
11	Rotor	Steel plate
12	Stator	Steel plate
13	Motor casing	SUS 304
15	Mechanical seal	
16	Flange setter	Cast iron
17	Motor lower cover	Cast iron
18	Mechanical seal cover	Cast iron
20	Pump casing	Cast iron
21	Impeller	Cast iron
27	Thermal protector	
107	Bolt	Steel
108	Nut	Bronze
111	Rotating cutter	SCM 440
117	Bolt	
125	Guide connector	
126	Guide support	
127	Lower guide support	
129	Duck foot bend	
153	Sand proof trap	NBR
166	Fixed blade	SCM 440
170	Lifting chain set	

**TECHNICAL DATA:**

MODEL	MOTOR kW / HP	VOLTAGE / PHASE	DISCHARGE SIZE (mm)	FULL LOAD CURRENT (A)
W-1100SC	1.1 / 1.5	230 V / 1 ph	32	9.0
W-1500SC	1.5 / 2.0	230 V / 1 ph	32	13.0

**DIMENSIONS:**

MODEL	HEIGHT (mm)	MAX WIDTH (mm)	BODY DIA. (mm)	WEIGHT (Kgs)
W-1100SC	512	284	210	31
W-1500SC	552	284	210	37

**MINIMUM SUMP DIMENSIONS:**

To avoid cycling and float interference minimum sump dimensions for, W-1100SC & W-1500SC pump must be 1000 x 1000 x 1000mm or bigger.

**Important notes on installation & operation of pump:**

- 1) Provide suitable lifting chain or rope to lower or lift the pump from sump.
- 2) Never lift or lower the pump with the power cable.
- 3) Suitable motor overload and under load protection must be provided to protect the pump motor. Ask Wallace for suitable control panel with protections.
- 4) Suitable Non Return Valve for handling sewage & waste water must be used in the delivery line to avoid sewage & waste water coming back in the sump when pump stops. Ask Wallace Pumps for suitable NRV.
- 5) It is highly recommended to use a High Level Alarm system to get warning before sewage & waster water overflows from the sump. Ask Wallace Pumps for suitable High Level Alarm system.