



Enriching Lives

# INDUSTRIAL PRODUCT RANGE

## SEWAGE DE-WATERING SUBMERSIBLE PUMPS



# ETERNA CW

SEWAGE DE-WATERING  
SUBMERSIBLE PUMPS



## FEATURES

### High Efficiency And Energy Saving Design

Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

### Easy Maintainable Designs

Easy maintainable design and better interchangeability of components so that pump can be serviced even at remote locations by semi-skilled technicians.

### Robust Construction

Heavy duty construction made from graded Cast Iron, Carbon + Silicon Carbide Mechanical Seal makes the pump suitable for sewage and sludge.

### Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which provides ease of maintenance thereby extending the life of the pump.

### Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, consistent performance as concentricity is maintained.

## TECHNICAL SPECIFICATION

Head Range	: Upto 70 Meters
Discharge Range	: Upto 4800 LPM
Power Rating	: 0.75 to 15 kW (1 to 20 HP)
Voltage Range	: 380 to 440 Volts (Three phase.)
pH	: 6.5 to 7.5
Maximum Density	: to 1050 kg/m <sup>3</sup>
Protection	: IP 68
Consistency of Medium	: < 1.2 x 10 <sup>3</sup> kg/m <sup>3</sup>
Maximum Ambient Temperature	: 40 °C
Insulation	: B Class

## MATERIAL OF CONSTRUCTION

Impeller	: Cast Iron
Delivery Casing	: Cast Iron
Motor Body	: Cast Iron
Pump Shaft	: Carbon Steel

## APPLICATIONS

### Pump clean water or drain sewage from:

- Sewage pumping.
- De-watering from basements, multi-storeys, shopping malls, godowns.
- Construction Site.
- De-watering foundation, trenches and pits.
- Flood water handling.

PERFORMANCE CHART OF CW SERIES SEWAGE SUBMERSIBLE PUMPSETS, AT RATED SPEED THREE PHASE AC PARTS SUPPLY																	
S. No.	Pump Model	Power Rating		Pipe Size (mm)	Rated Speed (RPM)	Max. Solid Size (mm)	TOTAL HEAD IN METERS										Min. Sub. From Bottom (mm)
		kW	HP				4	6	8	10	12	14	16	18	20	22	
							DISCHARGE IN LITERS PER MINUTE										
1	750CW	0.75	1	50	2900	20	-	336	300	230	145	-	-	-	-	-	466
2	1500CW	1.5	2	50	2900	20	-	-	375	327	270	202	120	-	-	-	500
3	2200CW	2.2	3	50	2900	20	-	-	590	550	502	447	383	298	202	-	520
4	3700CW	3.7	5	65	2900	30	-	-	-	-	-	-	625	530	396	260	607
5	5500CW	5.5	7.5	80	2900	35	-	1560	1494	1395	1270	1100	906	708	510	360	685
6	7500CW	7.5	10	150	1440	45	3360	3130	2760	2230	1200	480	-	-	-	-	920
7	11000CW 4PL	11	15	150	1440	45	-	-	4750	4300	3600	2570	1600	280	-	-	970
8	15000CW 4PL	15	20	150	1440	45	-	4800	4520	4230	3950	3620	3120	2140	400	-	1020
							12	15	18	21	24	27	30	33	36	39	-
9	15000 CW 4P	15	20	100	1440	35	-	-	2950	2680	2380	2080	1650	1150	680	150	990
10	7500CW 2P	7.5	10	65	2900	25	1500	1400	1300	1210	1120	1025	935	810	550	220	780
11	11000CW 4P	11	15	100	1440	35	-	2680	2350	1970	1500	630	-	-	-	-	925
							25	30	35	40	45	50	55	60	65	70	-
12	11000CW 2P	11	15	65	2900	25	1060	980	850	650	400	185	-	-	-	-	920
13	15000CW 2P	15	20	65	2900	25	-	-	-	-	-	1290	950	600	230	40	935

**Note:** Performance applicable to liquid of specific gravity 1 and viscosity as of water.



# DWSS

## SEWAGE / DE-WATERING SUBMERSIBLE PUMPS



### FEATURES

#### Fully Stainless Steel Pump

The entire pump is built with stainless steel, right from the body to the impeller and shaft, making it light weight and resistant to corrosion.

#### Dual Mechanical Seal

The Pump is sealed mechanically from both inside and outside, preventing electrical and water leakage during its operation and enhancing pump life.

#### Bottom Suction

Positioning the suction at the bottom edge of the pump facilitates greater removal of water, right up to the bottom level.

#### Jacketed Body

Stainless Steel jacket body provides self-cooling to motor and prevent motor burning.

#### Easy Maintainable Designs

Easy maintainable design and better interchangeability of components so that pump can be serviced even at remote locations by semi-skilled technicians.

#### Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which provides ease of maintenance thereby extending the life of the pump.

#### Compact Design

Light weight, compact size and ease of handling makes the pump highly portable for use in diverse locations.

#### Dual Ball Bearing

The pump employs dual bearings to greatly reduce rotational friction as well as offer better support to radial and axial loads.

### TECHNICAL SPECIFICATION

Head	: Upto 24 meters
Capacity	: Upto 1170 LPM
Power Rating	: 0.75 to 3.7 kW (1 to 5 HP)
Voltage Range	: 180 to 240 Volts ( Single phase) 380 to 440 Volts ( Three phase)
Type of Cooling	: Oil Cooled
Insulation	: F Class
Protection	: IP 68

### MATERIAL OF CONSTRUCTION

Impeller	: Stainless Steel 304
Motor Body	: Stainless Steel 202
Upper Cover	: Stainless Steel 304
Strainer	: Stainless Steel 202
Pump Shaft	: Stainless Steel 410
Diffuser	: Stainless Steel 304
Mechanical Seal	: Carbon vs Ceramic & SIC vs SIC

### APPLICATIONS

- De-watering from basements, multi-storeys, shopping malls, godowns.
- De-watering foundation, trenches and pits.
- Pumping water from docks, ports, vessels.
- Flood water handling.
- Construction Site.



PERFORMANCE CHART FOR 'DWSS' SERIES, DEWATERING SUBMERSIBLE PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY																
S. No.	Pump Model	Power Rating		Del. Size (mm)	Rated Voltage (Volts)	TOTAL HEAD IN METERS										
		kW	HP			5	6	8	10	12	14	16	18	20	22	24
						DISCHARGE IN LITERS PER MINUTE										
1	DWSS 4-113*	0.75	1.0	50	415	333	306	243	174	96	-	-	-	-	-	-
2	DWSS 9-218*	1.5	2.0	50	415	480	470	450	420	372	264	162	66	-	-	-
3	DWSS 11-320	2.2	3.0	65	415	810	774	708	630	552	480	390	270	126	-	-
4	DWSS 15-525	3.7	5.0	65	415	-	-	1170	1062	960	852	732	612	492	360	174

**Note:** 1 HP and 2 HP Models are also available in Single Phase.  
Performance applicable to liquid of specific gravity 1 and viscosity as of water.



# SW/BW

## SEWAGE DE-WATERING SUBMERSIBLE PUMPS

### FEATURES

#### Automatic On – Off Switch

Pre-fitted float switch ensure that the pump start and stop automatically as per need. This protects the pump from dry running and burning.

#### Ready To Use

No installation required, just drop it in the tank, and it is ready to use.

#### Corossion Free

Stainless Steel body and other rust free parts prevent corrosion.

#### TOP - Thermal Overload Protector

The pumpset features a Thermal Overload protector that protects the motor from overloading, shielding the motor and associated circuit from the effects of fault current.

### TECHNICAL SPECIFICATION

Head Range	:	Upto 12 meters
Discharge Range	:	Upto 330 LPM
Power Ratings	:	0.75 to 1.8 kW (1 to 2.5 HP)
Voltage Range	:	180 to 240 Volts (Single Phase)
Protection	:	IP 68
Insulation	:	F Class
Cable Length	:	9.5 meters

### MATERIAL OF CONSTRUCTION

	SW	BW
Impeller	: Noryl	Cast Iron
Delivery Casing	: Stainless Steel	Cast Iron
Motor Body	: Stainless Steel	Stainless Steel
Pump Shaft	: Stainless Steel	Stainless Steel
Cutter	: -	40 Cr Steel

### APPLICATIONS

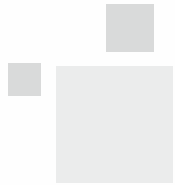
- Removing stagnant water from basement / underground parkings / garages.
- Draining accumulated storm water in monsoons.
- Emptying water-tanks and pits for cleaning.
- Waste water from kitchens, hotels, clubs.
- Surplus water from sumps.



SW



BW



PERFORMANCE CHART FOR SW AND BW PUMPS AT RATED VOLTAGE, 50 Hz FREQUENCY, SINGLE-PHASE AC POWER SUPPLY																	
S. No.	Pump Model	Power Rating		Del. Size (mm)	Rated Voltage (Volts)	TOTAL HEAD IN METERS										Max. Solid Size (mm)	Min. Sub. From Bottom (mm)
		kW	HP			3	4	5	6	7	8	9	10	12			
						DISCHARGE IN LITERS PER MINUTE											
1	750SW	0.75	1.0	40	220	180	150	120	95	60	-	-	-	-	15	370	
2	1000SW	0.93	1.25	40	220	-	-	200	180	150	120	90	50	-	15	390	
3	1300BW	1.3	1.75	50	220	-	-	-	270	240	204	162	132	60	10	530	
4	1800BW	1.8	2.5	65	220	-	-	-	330	300	240	180	120	-	10	630	

**Note:** Performance applicable to liquid of specific gravity 1 and viscosity as of water.

