



Submersible Dewatering  
Sewage & Non Clog  
Pumps Range

## DEWATERING PUMPING SOLUTIONS

SALES, RENTAL, AFTER SALES SERVICES FOR  
CONSTRUCTION, MINING, HEP & OTHER INDUSTRIES



## Submersible Pumps (CDW, CSW & CNC Range)

Cosmos CDW, CSW & CNC series of submersible pumps have been designed and built to offer high performance, reliability and ease of use across multiple industries.



Construction



Mining Site Dewatering



Hydro Electric Projects



Thermal Power Plant



Tunnel



Highways



Bridges



Infra Projects



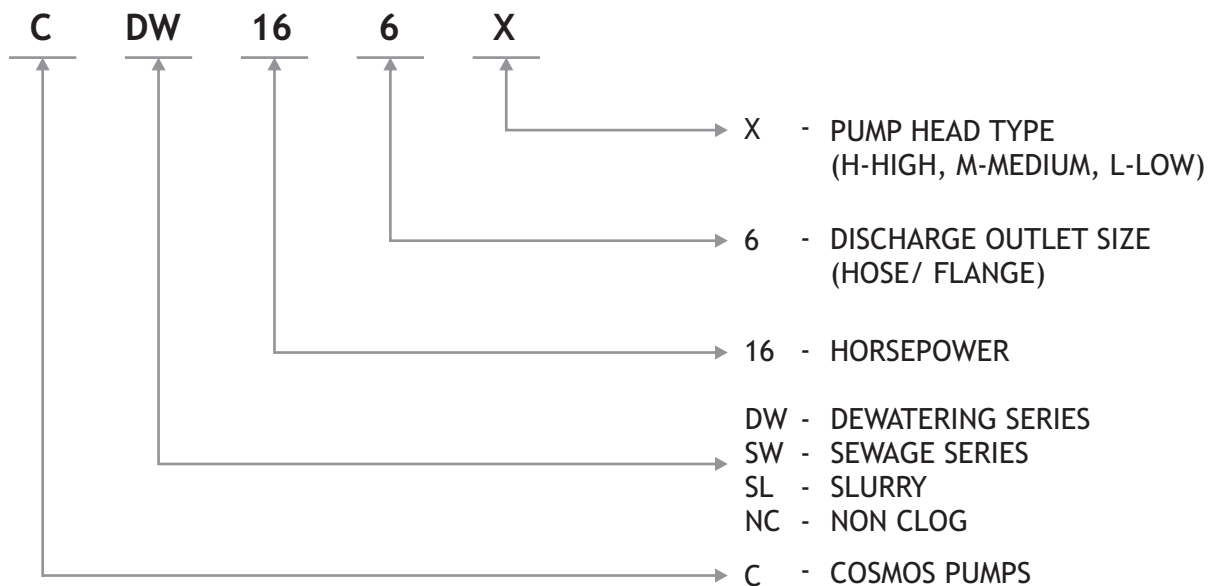
controlling Flood Water



Municipal Application

Cosmos pumps offer wide range of electric driven Dewatering, non-clog and Sewage pumps which are Modular, light weight and portable in design, offering ease of operation and servicing thus giving less down time and more pumping.

### MODEL NUMBER NOMENCLATURE



### Examples

CDW166M : Cosmos Dewatering Pump, 16 horsepower, 6" discharge nozzle size, Medium head

CSW106L : Cosmos Sewage Pump, 10 horsepower, 6" discharge nozzle size, Low head

## POWER CABLE

100% Water & Oil proof, PVC insulated, double sheathed, copper conductor flexible cable of 15 mtrs length.

## HIGH CORROSION RESISTANCE

All hardware, strainer, outlet, lifting hooks & seal housing are In S S for maximum corrosion resistance & life longevity

## IMPROVED CABLE SEALING

1 mtr long SS Steel grip & cable gland ensures protection against water leakage from cable entry side.

## STATOR CASING

Extruded Aluminium Alloy for best heat dissipation, which allows it to run for a longer time without submergence as compare to Cast iron pumps.

## MOTOR PROTECTION

Class H insulation (max temp rise 180°C) Bi-metallic thermal switches embedded in stator winding which protect the motor in the event of excessive high temperature.

## MODULAR SEALING SOLUTION

Twin SS seals In tandem (TC vs TC) for best sealing against water leakage into motor in abrasive & muddy environment, thus ensuring long life between service intervals.

## BALL BEARING

All ball bearings are filled with high temperature greases containing special anti-corrosive additive which ensures long life between service intervals.

## OPTIMIZED EFFICIENCY

Gap b/w Nitrile rubber moulded Wear plate/Diffuser & Impeller can be adjusted upto 5mm even at sites to optimize the flow, thereby reducing spare part consumption.

## IMPROVED ABRASIVE RESISTANCE

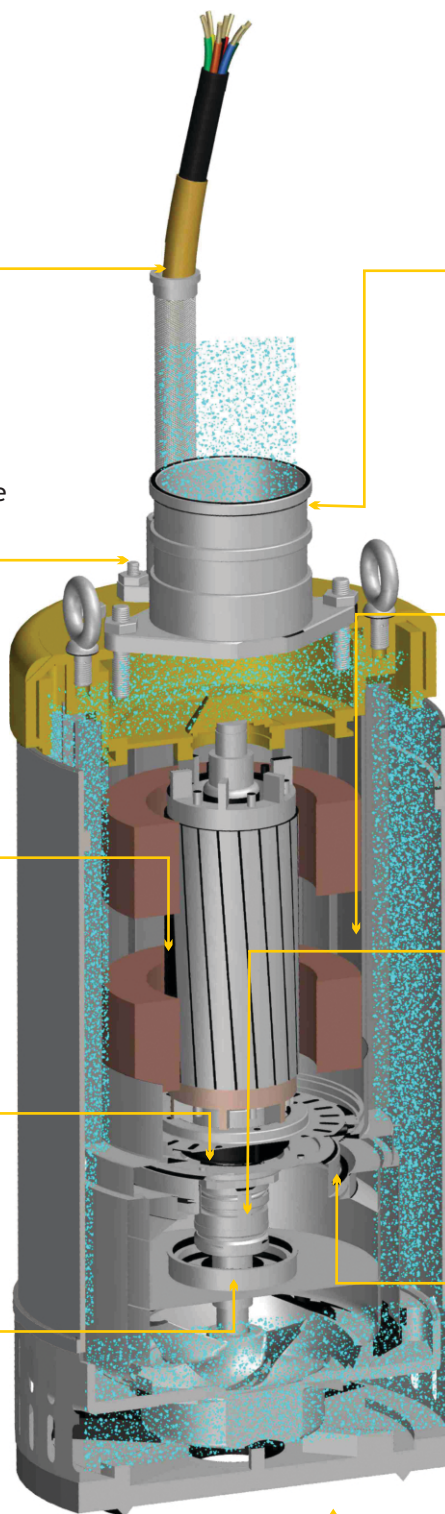
Rubber moulded Wear Plate, Diffuser & Nitride hardened SS-410 impellers with hardness HRC (52-55) for more life in abrasive & muddy application.

## LIGHT & MODULAR

Light weight modular design with Al Alloy Top Bracket, Outer portable Casing (upto10HP) & Pump Base makes it best suited for application.

## FOR SALINE WATER (OPTIONAL)

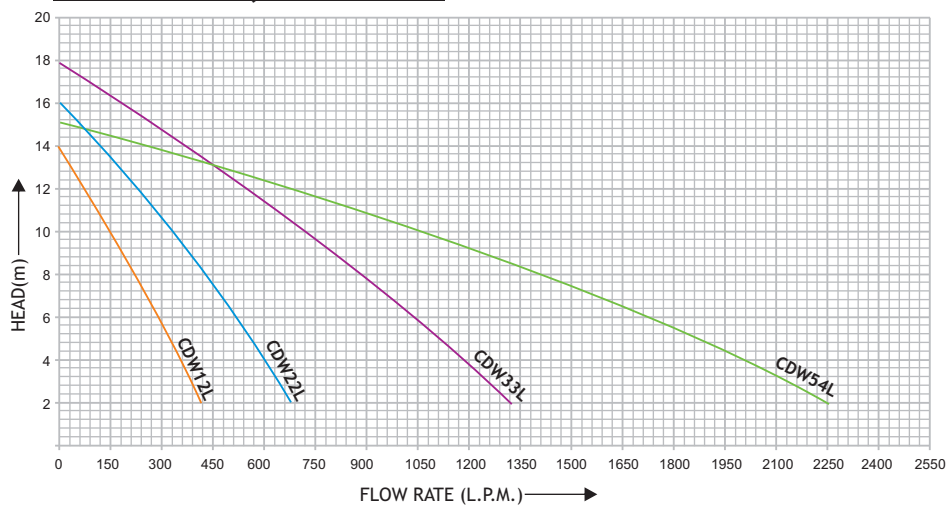
Pump can be equipped with Sacrificial Zinc Anodes for enhancing life In Saline water.





# Dewatering Pumps Technical Data with Performance Curves

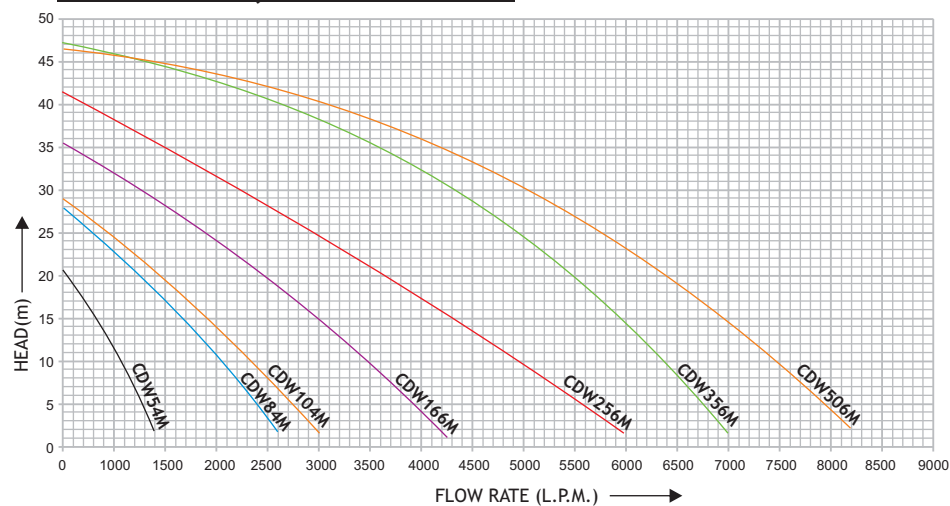
## CDW Series, Low Head



Model#	Dimension		Power HP	Max. Flow Rate LPM	Shut-off Head Mtr.	Weight KG
	H(mm)	Ø(mm)				
CDW12L	382	160	1.5	450	15.5	16
CDW22L	414	160	2	625	16	18
CDW33L	575	190	3	1250	17.5	32
CDW54L	587	276	5	2150	15	40



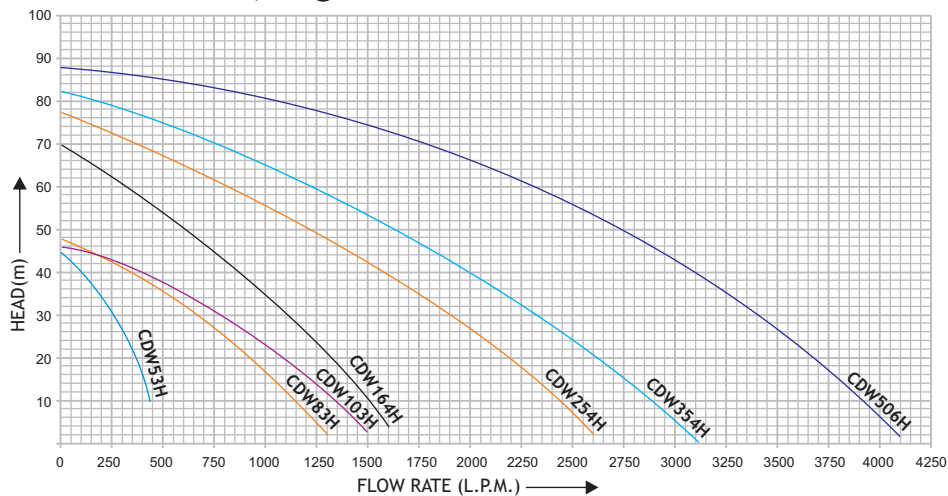
## CDW Series, Medium Head



Model#	Dimension		Power HP	Max. Flow Rate LPM	Shut-off Head Mtr.	Weight KG
	H(mm)	Ø(mm)				
CDW54M	587	276	5	1400	20.5	40
CDW84M	675	276	7.5	2600	28	55
CDW104M	700	276	10	3000	29	65
CDW166M	845	360	16	4250	35.5	125
CDW256M	915	402	25	6000	41.5	185
CDW356M	1015	410	35	7000	47	225
CDW506M	1038	410	50	8500	46.5	265



## CDW Series, High Head

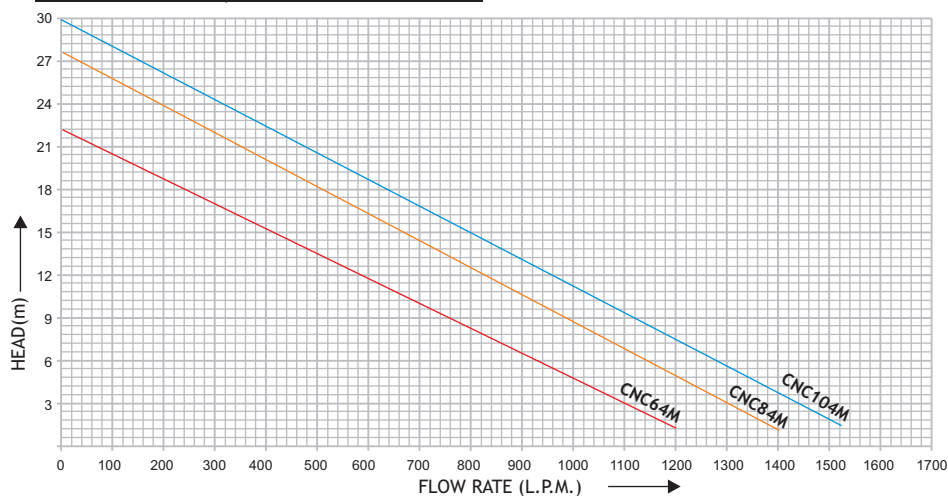


Model#	Dimension		Power	Max. Flow Rate	Shut-off Head	Weight
	H(mm)	Ø(mm)	HP	LPM	Mtr.	KG
CDW53H	605	276	5	350	45	53
CDW83H	650	276	7.5	650	47	60
CDW103H	685	276	10	800	48.5	66
CDW164H	845	360	16	980	70.5	140
CDW254H	915	402	25	1700	77	195
CDW354H	1015	410	35	2500	82.5	225
CDW506H	1038	410	50	3500	86.5	375

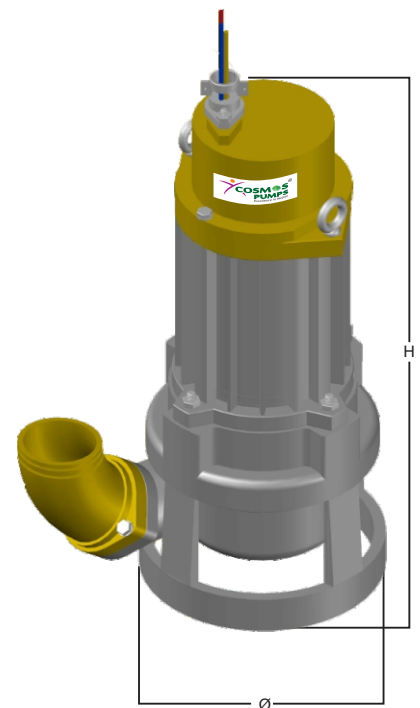


## Non Clog Pumps Technical Data with Performance Curves

### CNC Series, Medium Head

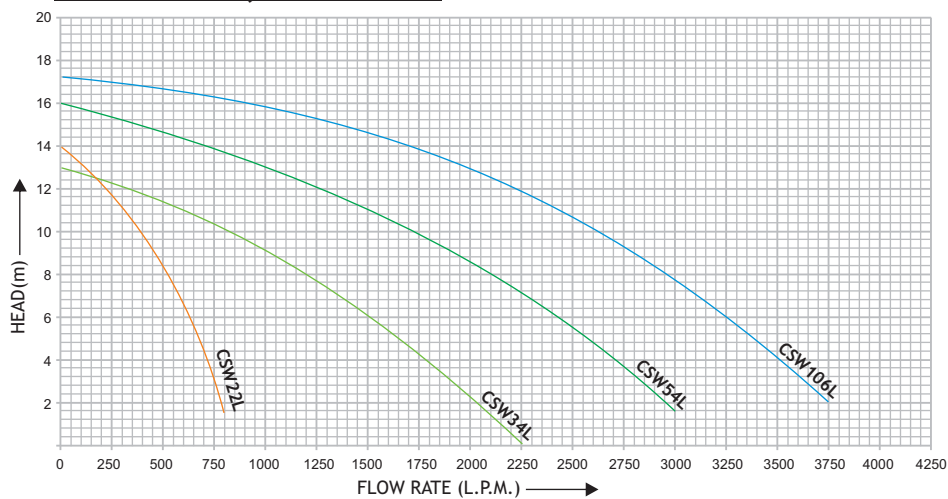


Model#	Dimension		Power	Max. Flow Rate	Shut-off Head	Weight
	H(mm)	Ø(mm)	HP	LPM	METER	KG
CNC64M	763	419	6	1250	22	60
CNC84M	793	419	8	1400	28	65
CNC104M	803	419	10	1500	30	70

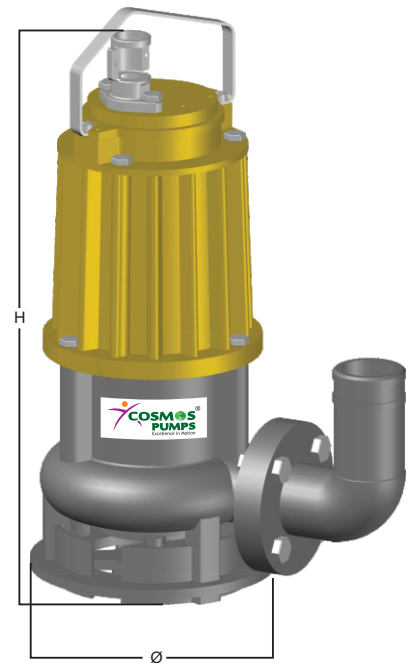


# Sewage Pumps Technical Data with Performance Curves

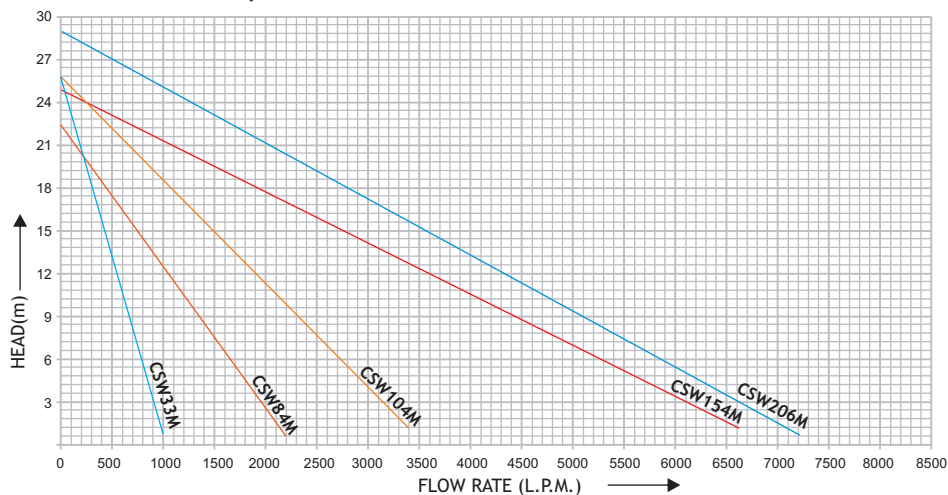
## CSW Series, Low Head



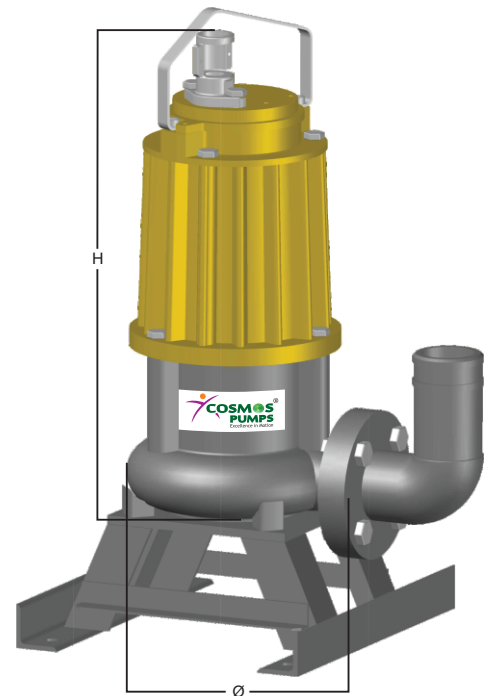
Model#	Dimension		Power HP	Max. Flow Rate LPM	Shut-off Head METER	Weight KG
	H(mm)	Ø(mm)				
CSW22L	585	380	2	775	14.5	53/62
CSW34L	760	525	3	2300	13	115/155
CSW54L	845	600	5	3000	16	145/205
CSW106L	880	755	10	3750	17	200/268



## CSW Series, Medium Head



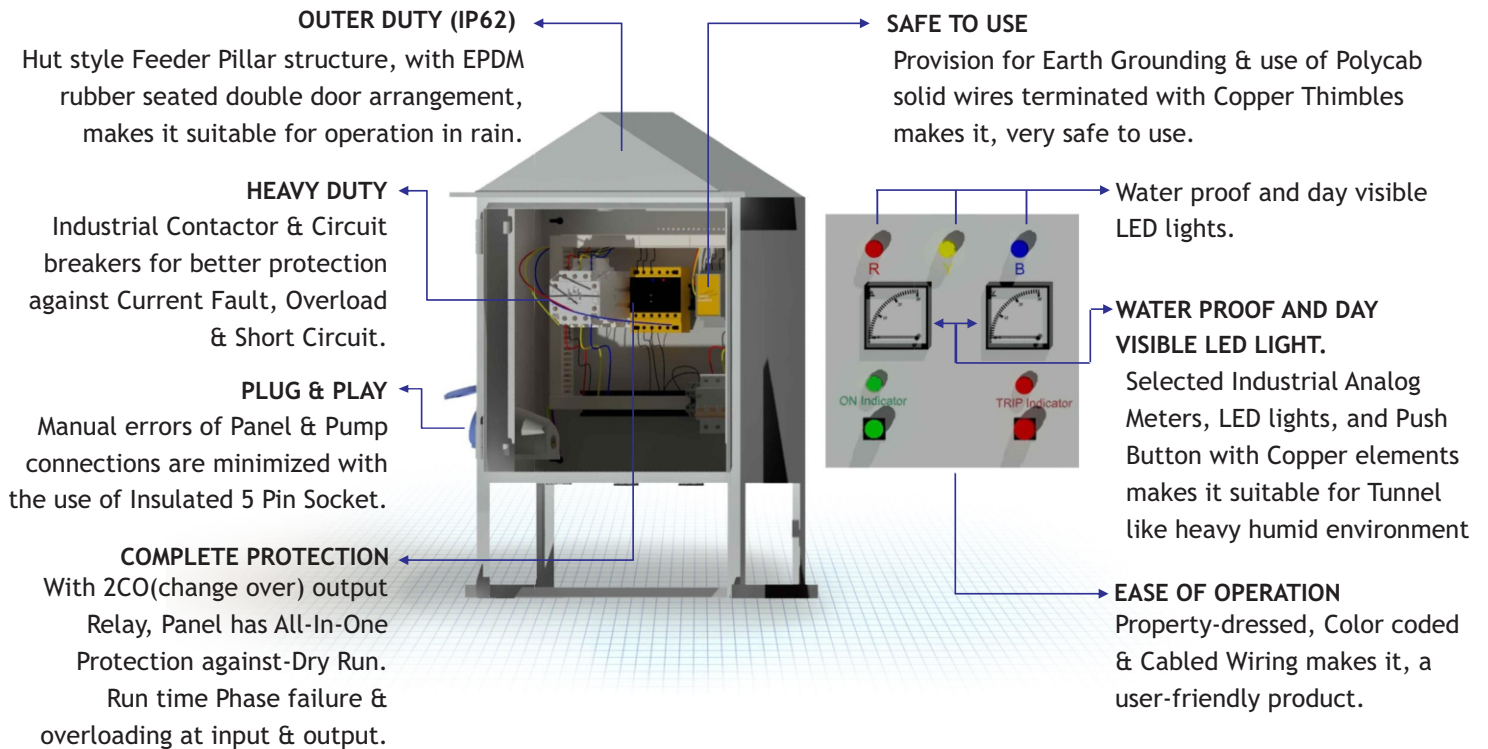
Model#	Dimension		Power HP	Max. Flow Rate LPM	Shut-off Head METER	Weight KG
	H(mm)	Ø(mm)				
CSW33M	690	485	3	1050	26	105/145
CSW84M	840	665	7.5	2400	22	185/225
CSW104M	840	665	10	3250	26	185/253
CSW156M	1250	1075	15	6500	25	310/370
CSW206M	1155	800	20	7200	28	310/380



# Accessories (Optional)

Cosmos Pumps recommends following accessories to our valued customers.(available on request)

## Cosmos Pump Panel



### Auto Coupling



An auto coupling set is also known as a guide rail set/system. This is a slide rail assembly that enables a pump to be easily lifted or lowered within a sump, for cleaning or maintenance duties without the need to disconnect fittings, fixings or pipe work.

### Agitators



Cosmos Sewage pumps & Slurry Pump can be fitted with agitator which eliminate solids accumulating on the sump floor and can significantly reduce maintenance costs resulting from digging out sumps and downtime.

### Pump Sensor

Cosmos Pump provides a number of sensors to monitor the status of a pump such as thermal sensor and moisture sensor .

### Zinc Anodes

Zinc anodes are available for extra protection against salt water corrosion.

### Seal kit

The seal kit is the proper selection of high quality components for a mechanical seal change to ensure trouble-free operation after servicing.

- O-ring kit
- Mechanical shaft seal



### Instant service pack



The instant service pack is a preassembled, tested and ready-to-use seal system containing the mechanical shaft seals, bearings, gaskets and oil to ensure trouble-free operation. It offers a quick onsite repair option due to ease of installation and therefore reduces the machine downtime cost.

### Wear part kit

The wear part kit is a typical selection of components to bring the pump performance back to factory standard. The ideal solution for a machine overhaul or refurbishment

- Impeller
- Wear plate
- Diffuser
- Impeller nut



-  Manufacturing Unit
-  Cosmos Office
-  Sales & Service Associates

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