

MECHLION®
MCP Series
Submersible
Sewage cutter Pump



Model Numbers:

C008S C015S C008T C015T C022T
C037T C055T C075T C110T C150T

High head single channel sewage handling submersible sump pumps with cutting impeller, available with a choice of single or three phase motors.

APPLICATIONS

- Sewage water pumping
- Sewage Sump emptying
- Septic effluent disposal
- Sewage Water transfer
- Pumping of light slurries and factory waste
- Pumping waste water with stringy or long soft solids in suspension

WHY CHOOSE THE MECHLION®
Submersible Sewage cutter Pump?

The **MECHLION** sewage cutter Pump is more than a cutter pump that cuts solids between the edge of an impeller and a cutter bar like an axe. carbide tip impeller continuously rips solids apart with 360 degree shredding action for easier passage.

The cutter pumps can handle most unintended items that occasionally enter the waste stream.
 (For optimal performance, the pump must be sized correctly for the application)

Corrosion resistant 304 stainless steel shaft, motor shell and fasteners.

- Long service life
- Attractive, lasting appearance

Open impeller, single vane centrifugal design TC tip egde

- Able to pump soft solids in suspension
- Less susceptible to blockage
- Capable of higher heads/pressure

Double mechanical shaft seal in oil bath with hard faced silicon carbide/ceramic seal on pump side

- Added motor protection
- Long service life

Automatic resetting thermal overload

- Protected against overloading

H07RNF oil resistant leads with bare wire lead ends

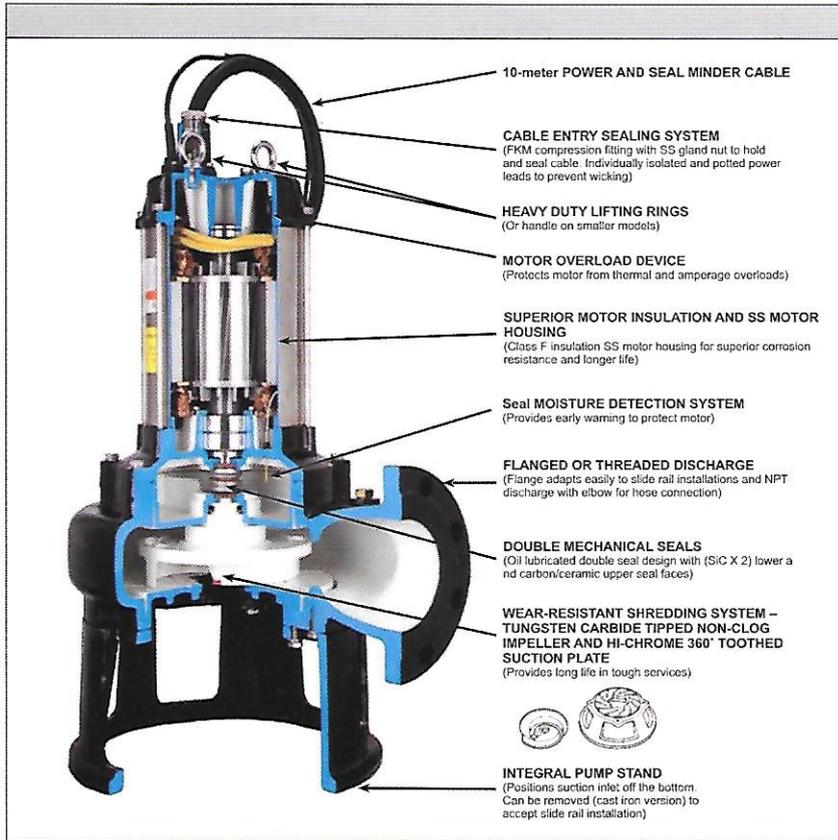
- Easy to connect to power supply terminations
- Long life in dirty water

Mounting base fitted.

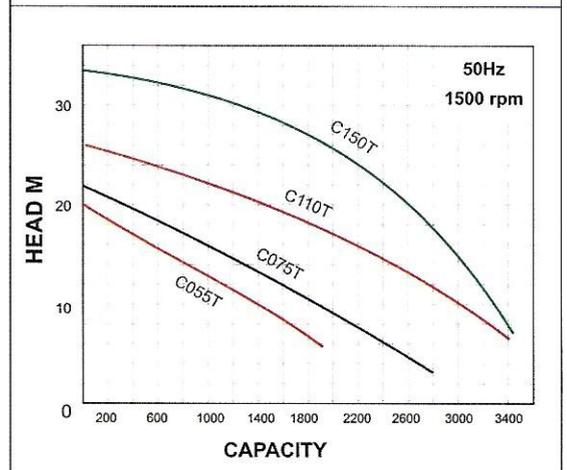
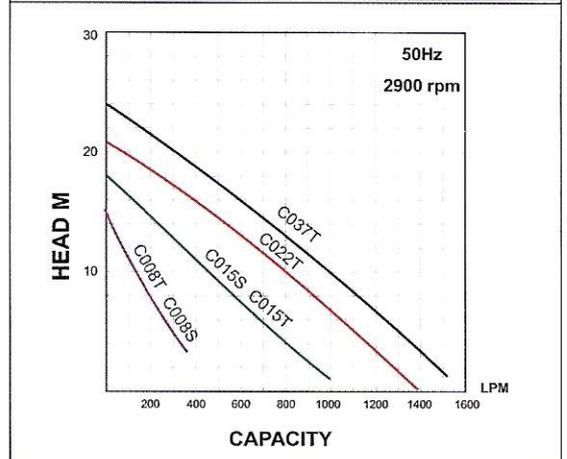
- For firm and stable positioning during installation & operation

Auto guide rail kit available on request

- For easy removal and re instillation

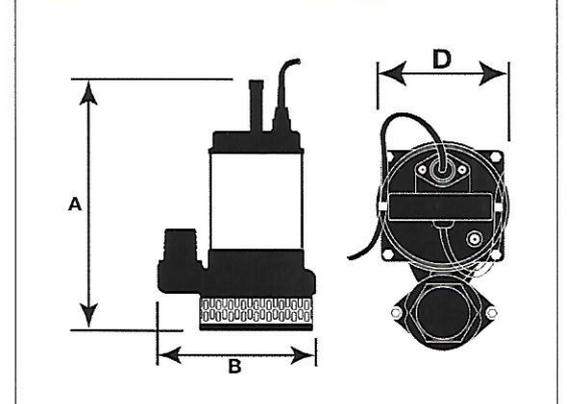


PERFORMANCE CURVES



ELECTRICAL DATA										
Model	C008S	C015S	C008T	C015T	C022T	C037T	C055T	C075T	C110T	C150T
Speed	2 pole, 2900 rpm					4 pole, 1500 rpm				
Insulation class	Class F					Class F				
IP rating	68					68				
Electrical lead	HO7RNF x 10m length									
Supply voltage (V)	220-240					380-415				
Phase	Single					Three				
Output Power	0.75kW	1.5kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW
Full load current(Amps)	5.2	11.5	1.7	3.0	4.4	7.5	11	14.5	21.7	28.5
Starting	CSIR			DOL			DOL			
Solid Handling mm	21	44	21	44	44	40	60	60	50	55

DIMENSIONS



MATERIAL OF CONSTRUCTION

Model	Material
Impeller	Cast iron
Cutting tip	Tungsten carbide
Diffuser Plate	Hardened case iron
Pump casing	Cast iron
Outlet	Cast iron
Shaft seal – pump side – motor side	Silicon carbide/ceramic Carbon/ceramic
Shaft seal elastomer	Nitrile rubber
Pump shaft	304 stainless steel
Orings	Nitrile rubber
Motor shell	304 stainless steel
Handle	304 stainless steel
Fasteners	304 stainless steel
Float & power supply leads	HO7RN-F oil resistant



OPERATING LIMITS	
Capacities up to	3600 lpm
Maximum total head	33m
Maximum submergence	25m
Maximum operating temperature	40°C

	A	B	D	B.S.P.	Weight (kg)
C008S	530	310	195	2" F	27.0
C015S	590	360	240	3" F	38.0
C008T	465	310	195	2" F	26.0
C015T	515	360	240	3" F	35.0
C022T	560	400	240	3" F	43.0
C037T	600	400	245	3" F	47.0
C037T	600	450	245	4" F	47.0
C055T	745	725	400	4" F	140.0
C075T	795	725	400	4" F	150.0
C075T	795	800	400	6" F	150.0
C110T	900	910	480	6" F	220.0
C150T	950	910	480	6" F	235.0

All dimensions in mm unless otherwise stated.