



AUTOPRIME PUMP SYSTEM

Offering auto prime system in which no need of foot valve and pump suck water easily up to 8/9 meter as we use power dul vaccum pump with special vaccum part. you can use any type of pump live back pul out end suction and HSC pump for clear or Dirty water or water with solid content.

pumps are high performance engine / motor driven pump unit designed to pump liquids containing mud, sewage and semi solids.

The Autoprime vacuum assisted pumps are available on site wheels, high speed road trailer or skid. The pumpset can be supplied as open or enclosed in an acoustic canopy.

Modular construction allows high interchangeability of components and ease of maintenance.

Applications:

- Ground water control
- Wellpoint dewatering
- Sewage over-pumping
- Flood relief
- Pipe relining
- Mine dewatering
- Industrial sludge pumping
- Tank sediment cleaning
- Emergency service pumping
- Marine ballasting



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COMPONENTS

Pump :

- pumps are end suction sturdy and robust design pumps
- Pumps are Mixed flow/Non Clog/Axial flow design
- Impellers are suitable for handling liquids containing solids at medium or low heads
- Available in 3 delivery orientation i.e. vertical , horizontal and oblique to cope up with customer requirements

Primemover (Engine /Motor):

Engine: Air/Radiator/HE cooled (1000 rpm and above)

Engine Details : Reputed make, inline engine with direct injection with compression ignition

Motor: Totally Enclosed Fan Cooled (TEFC SQ cage) or Special Protection Drip Proof (SPDP).

Auto Priming Unit :

The auto prime system has three major parts.

Priming Tank Assembly : The priming tank assembly is fitted to the suction branch of the pump. It provides for removal air drawn from the suction line and contains protection devices to prevent water from getting to the vacuum pump.

Vacuum Pump & Coalescer : The vacuum pump is driven by a V belt drive from the pump drive shaft, this draws air from the priming tank and passes it to the coalescer. The vacuum pump is lubricated by oil, some of which mixes with the air. The coalescer is required to separate the oil from the air thus discharging clean air to atmosphere and recycling the oil for lubrication.

DESIGN FEATURES

- Pump can be left running when liquid is exhausted and will self prime when liquid is present
- Mechanical priming system is provided
- Rugged construction requires minimal operator maintenance
- 60 cfm Vacuum Pump with coalescer and air exhaust to atmosphere
- Rotary Vane, Oil lubricated Vacuum Pump : 60 cfm (100 m³/hr)
- No manual intervention for priming purpose is required

PUMP SPECIFICATIONS

Flow Rate	200 to 6000 m ³ /hr	Pump Casing	Cast Iron / Stainless Steel
Discharge Head	4 to 28 m	Impeller	Stainless Steel
Pump Speed Range	750 to 1500 rpm	Pump Shaft	ST ST ASTMA276 TYPE 410 , Carbon Steel
Max Solids Size	Up to 100 mm	Different Sizes	APM250/34 , APM300/34 , APM350/47 , APM400/47 , APM450/54





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video link : <https://www.youtube.com/watch?v=SGi96Pv5zeg>
<https://www.youtube.com/watch?v=hgkIbSpVMwQ>