

Auto prime **TECHNOLOGY**



High Efficient Heavy Duty
Dewatering Pump - **DWPx SERIES**

KEERTHI's DWPx ranges of fully automatic self-priming centrifugal Pump design which is highly dependable pumps suitable for Well point system or Sump pumping and an ideal solution for transporting or raising water with abrasive solids in suspension. These pumps are coupled to Engine or Motor and mounted on a skid with trailer for easy mobility and are provided with Vacuum pump to facilitate auto self-priming. Both Air-cooled and Water cooled Engines can be supplied as a complete unit.

Standard Equipment

- 90° Flanged Discharge Elbow
- Structural Steel Skid Base
- Sound attenuated canopy (optional)
- Trailer or Skid mount

APPLICATIONS

- Construction quarries
- Flood water dewatering
- Municipal applications
- Mines and tunnel dewatering
- Heavy Sludge & Slurry
- Solid laden liquid
- Jetting
- Stream diversions
- Ground excavation
- Drainage and dewatering
- Tunneling construction
- Dam Drainage
- Bridges
- Sewage Networks
- Pipelines
- Marine
- Strom water runoff

DESIGN

- The DWPx series pump system consists of a centrifugal pump and a vacuum Chambers, which enables air to be separated from the liquid and be sucked by a vacuum pump - making automatic priming possible.
- A vacuum chamber closely joined to the liquid pump casing, forms a chamber where air or entrained gases can separate from the liquid and is drawn into a vacuum pump.
- The vacuum pump makes it possible for the unit to prime "dry" (without first having to fill the pump casing with liquid) and can handle considerable quantities of air, allowing the priming of the well point system and maintaining it under vacuum, or draining an excavation thoroughly.
- Additionally, thanks to the semi-open impeller, the DWPx Series is also suitable for pumping liquids with solids in suspension.
- Pump are available with side or overhead valve & engines from Various Manufactures
- An electric start option is available on many models.
- Working pressures up to 16 bar also available. Centerline discharge assures that the casing is self-venting.

Materials of Construction

PART NAME	MATERIAL
Casing	CI/ WCB/CF8/CF8M/CD4MCuN
Impeller	CF8/CF8M/CD4MCuN/Bronze
Wear Ring	CF8/CF8M /Bronze
Shaft	SS304/ SS316
Shaft Sleeve	SS304/ SS316
Bearing Housing	CI
Bearing Lubrication	Grease
Mechanical Seal	Double – Silicon/ Tungsten Carbide
Chassis / Fuel Tank	MS

SOUND ATTENUATED CANOPY

Keerthi Pumps Canopy with safe Guard system is ideally suited for operation in wide range of applications where Provision for electrical power failures, flood , heavy duty equipment's failure is necessary for essential pumping requirements canopy is Made of 12Gauge Galvanized steel , double sided galvanized sheet panels insulated with Fire retardant acoustic foam Keerthi Pumps sound guard reduce noise level to no more than 68Db at 30feet (9m). Panels are removable for maintenance and repair. Lockable panels' doors provide easy access to pump, engine, priming system and Controls for routine servicing, lubricating and fueling.

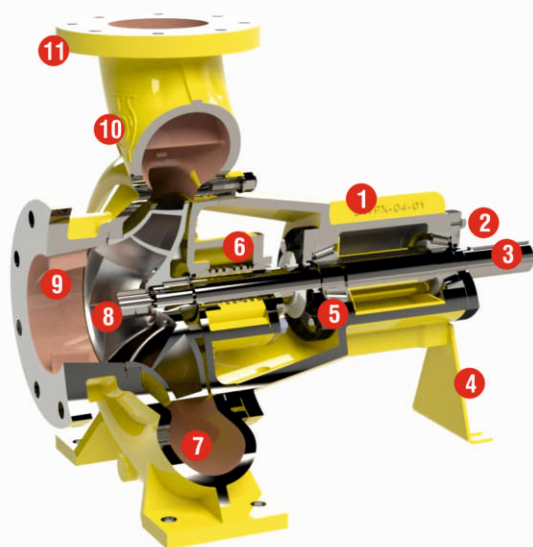
DWPx CANOPY SERIES



Technical Specifications

MODEL	DWPx 4 inch	DWPx 6 inch	DWPx 8 inch	DWPx 10 inch	DWPx 12 inch
Head Range upto m	46	47	45	66	57
Discharge upto m ³ /h	162	530	680	1185	1800
Engine Power Rating HP/kW	25 / 18.64	41 / 30.57	56 / 41.75	85 / 63.38	145 / 108.12
Suction x Delivery mm	100 x 100	150 x 150	200 x 200	250 x 250	300 x 300
Flange Standard	DIN ND16	DIN ND16	DIN ND16	ANSI B 16.5	ANSI B 16.5
Max. Operating Pressure Bar	16				
Max. Liquid Temperature °C	60°C				
Operating Speed rpm	2000				
Hydro Static Test Pressure Bar	6.75	6.75	5.55	9.75	8.55
Max. Solid handling mm	12	18	20	20	25
Fuel Tank Capacity litre	120	180	240	300	350
Battery	12V, Min. 500 CCA				

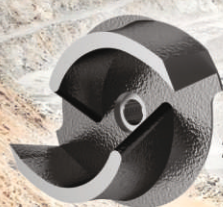
Salient Features



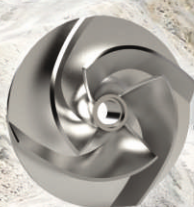
The DWPx Series offers many features and benefits that improve performance, increase reliability and reduce maintenance time and cost. They can work with water that is clean or dirty as well as handle trash and fibrous materials. Features such as semi-open impellers and abrasion resistant pump castings, this range have excellent solids handling capability.

- Heavy duty power frame** with re-greaseable bearing better heat dissipation
- Engine Drive / Standard motors** provide low noise level pump operation.
- Stainless Steel shaft** Designed for minimum deflection.
- Back pull out Design** allows servicing of pump without disturbing suction and discharge pipelines.
- Re-greaseable SKF bearings**
- Mechanical seal** has carbon against ceramic face for optimum hot water performance.
- Factory Hydro test** guarantees casing & seal integrity.
- Dynamically balanced impeller** keyed to shaft extension and secured by a cap screw and washer. Gaskets are used to prevent leakage to shaft end.
- Suction splitter** on some 4" and all 5" and larger suction to eliminate pre-rotation.
- Double volute discharge** on some 8" and all 12" and larger discharge to reduce bearing loads. Note : Single Volute also available
- Ductile Iron casing** long life with higher working pressures.

Spares Interchangeability | Replaceable Wearing Ring | Priming Upto 20 Feet | Oil Lubricated Vacuum Pump With Oil Recovery System | Digital Tachometer | Hour Meter | Fuel Indicators | Battery Indicator | RPM Controller | Bearing Temperature Sensors | Oil Level Indicator (optional).



**Semi Open
2 vanes Impeller**



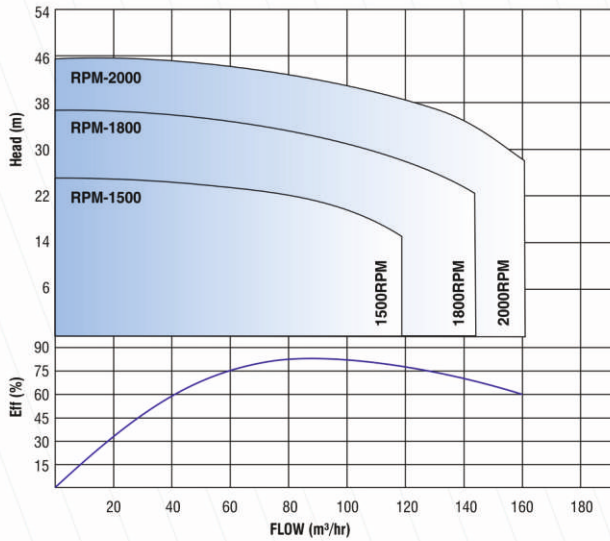
**Semi Open
4 vanes Impeller**



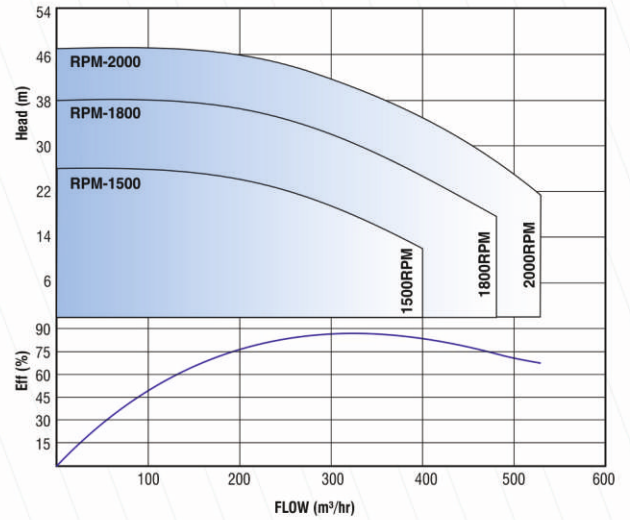
Closed Impeller

Performance Curves

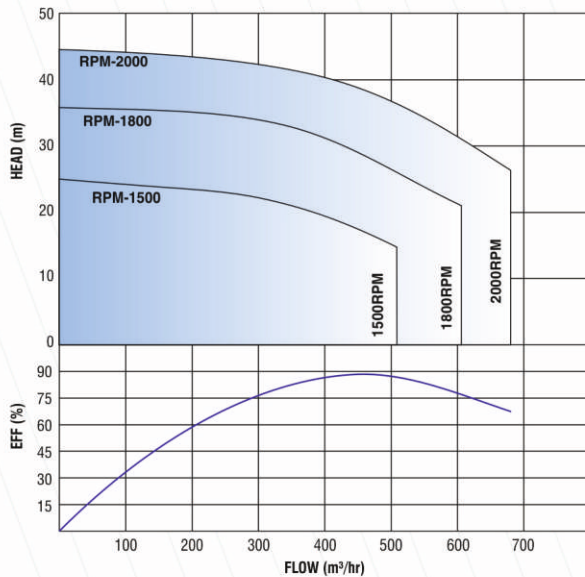
Model : DWPx 4 | Type : DWPx 80/260 | Size : 4" x 4"



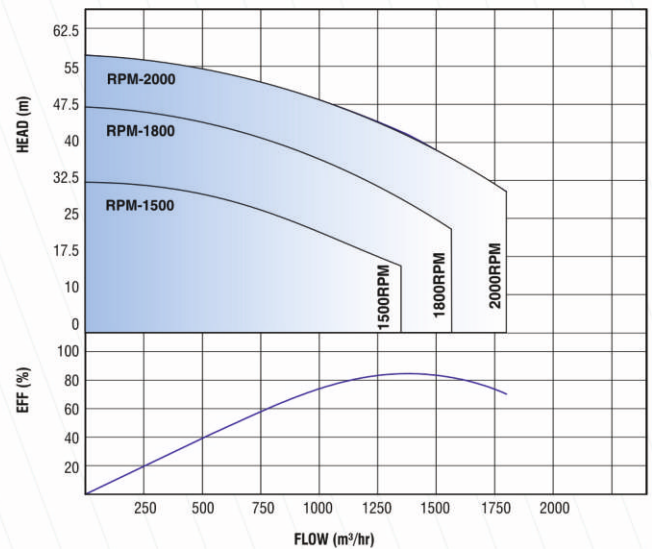
Model : DWPx 6 | Type : DWPx 125/260 | Size : 6" x 6"



Model : DWPx 8 | Type : DWPx 150/260 | Size : 8" x 8"



Model : DWPx 12 | Type : DWPx 300/320 | Size : 12" x 12"



In view of continuous developments the information in the catalogue are subject to change without prior notice.



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