

EASE

Emerald Air Starters & Equipment

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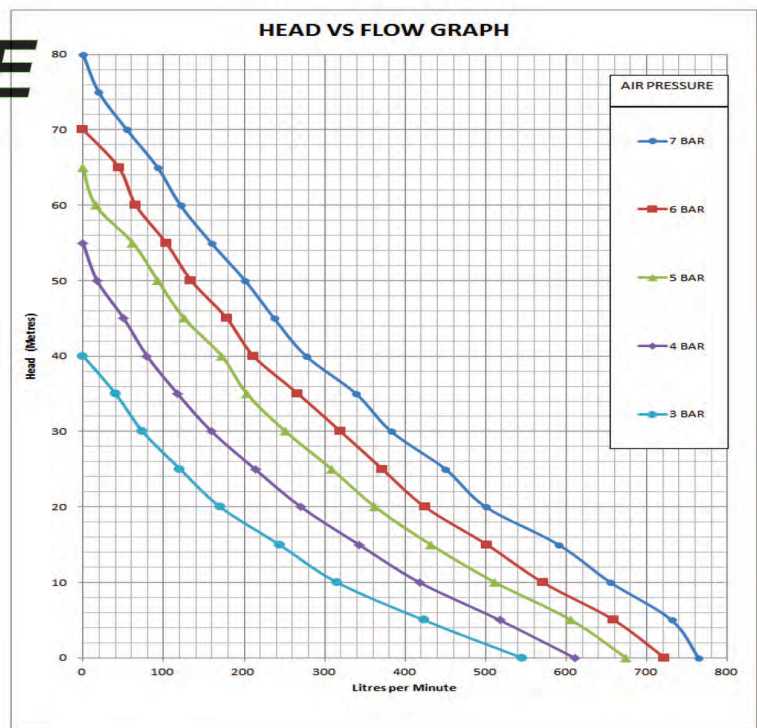
P4 Vortex Submersible Pump - MK4

The NEW P4 VORTEX MK4 SUBMERSIBLE PUMP is environmentally friendly with world class leading Lubrication free Pneumatic Motor Technology. Extending its life and boosting an extra 10 meters head beyond any current pneumatic pump in the market. Specifically developed to operate under severe mining conditions. Low Air consumption, light weight, easy to carry and a combination of toughness, durability versatility and benefits never seen before.

ATS 2000 - Making a Difference



LUBE-FREE
ENVIRONMENTALLY FRIENDLY



Specifications

Noise Level	85DbA @1m
Overall Height	435 mm
Overall Width	340 mm
Weight	17 Kg
Power Rating	4 Kw
Working Pressure	100-700 kPa
Air Inlet	1" BSP
Air Outlet	25 mm
Water Outlet	2" BSP
Swage Nipple Outlet	50 mm
Max Head @ 700 Kpa	80 m
Max Flow Rate @ 700 Kpa	764 L/min
Max Head @ 400 Kpa	53 m
Max Flow Rate @ 400 Kpa	674 L/min

MODEL No.	DESCRIPTION
P4-50-750-MK4	VORTEX SUMP PUMP with STD CAST IRON INVOLUTE HOUSING and IMPELLER

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Feature		Benefit
1 Pumping Section		
1.1	Inverted Volute Chamber & Impeller with Side Suction	Pump is placed on top of dirt not in it no need for water filtering screen. What it swallows it will pump.
1.2	Vortex Pumping	Ability to pump grit and small stones, without jamming.
1.3	Inverted Impeller	Allows for flood feed through sides, no suction required.
1.4	Detachable Impeller cover with "o" ring seal.	Three 17mm bolts remove the "O" ringed cover, gaining quick access to impeller for cleaning.
1.5	Optimal High volume non-return valve.	Helps to keep dirt out of the pump, when it stops pumping.
1.6	Ability to lift the pump out of the water while running.	Pump will maintain water pressure when lifted out of the water allowing transfer to next pump position with little back flow.
2 Motor Section		
2.1	Environmentally Friendly Lub-Free motor.	Motor can run continuously without oil, eliminating environmental oil pollution and has an extended motor life.
2.2	Stainless steel Cylinder and hardened motor parts.	Rust free and wear resistant.
2.3	No high pressure water on spindle seals.	Spindle seals control low exhaust air pressure in motor housing, from entering the pump volute. There is no high pressure water being controlled.
2.4	Ability to run continuously out of water.	Motor housing seal is cooled by air passing through the motor into the exhaust.
2.5	Multi-positional motor housing seal with shaft wear sleeve.	Eliminates the shaft wearing out with oversize wear sleeve and seal being available to extend the life further.
2.6	Ergonomically designed carry handle.	Easy to carry and is also the exhaust housing.
3 Filter Inlet Section		
3.1	Built in high capacity in line filtering system, with a flushable and replaceable filter element.	Day to day element cleaning is easy and accessible and replacing is via external screw off cap.
3.2	Filter Element	Filter Filters out dirt down to 120 micron particles.

SECTIONED VIEW OF PUMP

