

Advantages of the LoFlo Pump

Construction

- Support legs and body are constructed from high-grade aluminum to give corrosion resistance and ease of mobility.
- The induction motor is brushless can be driven by any power source. (e.g.; solar, battery or mains electricity)
- Pump seal is a standard leather washer that is easily and inexpensively replaced if the pump runs dry for an extended period.
- The ball valves are pressure activated (no springs)
- The only metallic components in the down-hole section of the pump are the lower piston (bronze) and barrel (ss). These are resistant to electrolysis corrosion as there are no conductivity path.
- High-grade nylon drive shaft bushes eliminate the need for maintenance prone stuffing boxes.

Operation

- Can be easily installed or recovered by one worker.
- Suitable for low yielding bores where steady low flow pumping will give adequate water supply for domestic and stock purposes.
- Pumping stroke can be adjusted to suit the groundwater recharge rate. This protects the bore hole structure from erosion or collapse.
- Can operate on a very small power input (200 watt for the current model). This is ideal for remote locations where solar or wind power can be used.
- Can operate in misaligned boreholes due to the flexibility of the pump housing and piston connecting cable.
- Can operate in bore casings as small as 80mm in diameter. Thus it can be used for equipping old windmill bores and for monitoring ground water in exploration drill holes.
- Can also be used to suction lift from shallow wells, rivers and dams.

Performance

- The pump is double acting; lifting water up to 50m on the up stroke and pumping up to 50m head to a tank on the down stroke.
- The pump is self-priming and can pump up to rates of 400 l/hr. This gives 2,000 to 3,000 litres per day on solar power.
- The pump has high efficiency characteristics due to its effective energy transfer system and lightweight moving components. It outperforms similar pumps.
- The performance required can be matched to the power source. (e.g.; for deeper bores more solar panels are added to provide for the increased power demand)

Servicing

- Very inexpensive to maintain and repair. No need for specialised tradesmen.
- The top piston seal is the only wear part and this is readily accessible.
- Servicing requirement is minimal. The scotch yoke bearing requires greasing twice a year and the top piston seal needs to be inspected yearly.
- All component parts are readily available from our North Queensland factory.
- Technical backup and assistance is as close as the nearest phone.

