

ECOLOGICS HIGH CAPACITY STEP ACTION WATER PUMP

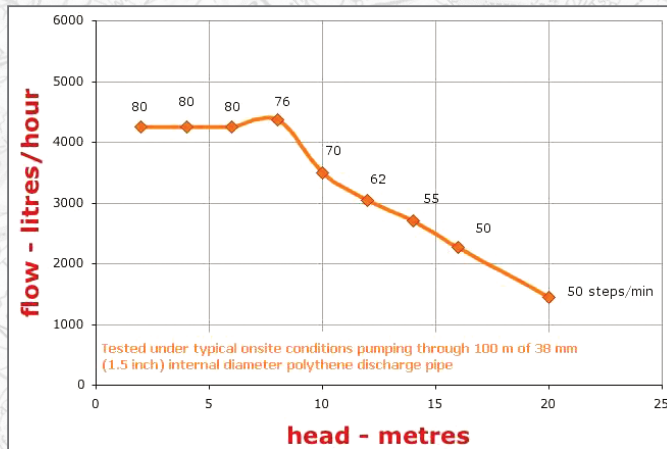
New Generation Manual Water Pump Technology

Applications

- Small scale irrigation (plots to 1 hectare)
- De watering pits, trenches, mines, basements
- Disaster and emergency relief - first response appliance
- Supply of drinking water
- Filling header tanks for residential reticulation
- Fire control
- Wash downs
- Watering of animals
- General movement of water in areas where powered water pump alternatives are either not practical or available



"Global patents held"



The development phase of the Ecologics High Capacity Step Action Water Pump focused on most efficiently utilizing the available human energy resource. High flow manifolds, low resistance valves, freely operating mechanicals, attention to ergonomics and (1.5 inch) suction and delivery permit elevated lift, pressure, and flow capacities.

With combined mechanical and friction losses of only 7% against norms of between 25% and 40% the efficiency of the Ecologics High Capacity Step Action Water Pump is unparalleled. This permits sustained operation for extended periods delivering much increased lift, volume, and pressure than other manual pumping systems. Contributors to traditional treadle pump failures (piston seals and ball race bearings) have been eliminated. Being a diaphragm configuration the Ecologics units also have the ability to deliver silt laden water.

* Durability has been extensively tested with diaphragm life proven in excess of 5,000,000 litres (steps) and the pump mechanicals in excess of 9,000,000.

* (Testing is undertaken mechanically using pneumatic rams set at 80kg and pumping continuously at 10 metres head)



Packing Contents

- Water pump
- Handle
- 4 x hose clamps
- Hose clamp spanner
- Suction filter with check valve
- Adjustable water nozzle
- Instruction sheet

Pumps are packed two units per carton.

Carton dimensions 60cm x 40cm x 38cm.

Carton weight 28kg



Hand delivery



Three half inch sprinkler heads cover 550 sqm



Supply gravity drip tanks

Technical Specifications

pump type	twin diaphragm, self priming
weight::	11kg - fully portable for safekeeping
dimensions:	60cm x 35cm x 27cm
hose fittings:	accepts both 38mm (1.5 inch) and 40mm internal diameter non-collapsible hose
max. lift:	20 metres (max suction at sea level 8m)
sustainable flow - one operator:	4,000 to 5,000 litres per hour (lower to mid lift range)
lateral delivery:	up to 1100 metres over level ground (results will vary with environmental factors)
pressure developed:	2 bar (30psi) - capable of driving a variety of irrigation appliances
water quality:	ability to deliver silt laden water
construction:	zinc coated pressed steel, quality self lubricating nylon bearings, fabric reinforced twin rubber diaphragms
extend capabilities:	lift and lateral delivery may be extended by linking pumps in series

AVAILABLE FROM

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