

SPECIFICATION FOR POLDAW 3.5m WIND PUMP FOR BOREHOLES OF UP TO 90 METER.

Life span 20 years plus
 Low maintenance – grease moving parts/bearings once per year
 Simple installation
 Automatic storm protection mechanism
 Mild steel welded construction, self-aligned flanged bearings

Rotor diameter	12 feet (3.5 m)	
Blades	12 off	
Tower height	9 m (30 feet)	
Starting wind speed	9 Km/hr	
Cut-out wind speed	54 Km/hr	
Survival wind speed	180 Km/hr	

Direct drive (no gears) using sealed ball bearings.

Typical rotor speed 40 - 80 rpm

Pump stroke 100 mm

Automatic storm protection : In winds over 54 Km/hr the rotor turns edge-on to wind and when the wind drops, it automatically restores to normal operation.

Pump diameters and output: Depends on depth of bore hole and strength of wind.
 See table below.

Total pumping head (metres)	Light wind 10 Km/h	Medium wind 14 Km/h	Strong wind 18 Km/h
5	45,000 lit	92,000 Lit	149000 Lit
10	22,000	45000	73000
20	15,000	29000	48000
30	11,000	21000	35000
40	9000	16000	28000
50	7000	13000	22000
60	5500	9500	16000
80	4000	7000	12000
100	3000	5500	10000



WHAT MAKES THE POLDAW DIFFERENT FROM OTHER WIND PUMPS?

Cost competitive with other pumping methods and lower than other wind pumps.

Reliable, robust sustainable technology.

Ultra low operation and maintenance costs

Easy, safe installation and maintenance

Unique designed wheel for optimum wind usage, for maximum pump delivery

A POLDAW transmission, wheel and tail, can easily be installed onto an existing tower

No geared transmission

No oil bath

For more details see our web page: www.poldawwindpumps.co.za

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